

SEQUENCE LISTING

<110> Xu, Jiangchun
 Dillon, Davin C.
 Mitcham, Jennifer L.
 Harlocker, Susan L.
 Jiang, Yuqiu
 Kalos, Michael D.
 Retter, Marc W.
 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
 Li, Samuel X.
 Wang, Aijun
 Skeiky, Yasir A.W.
 Hepler, William T.
 Henderson, Robert A.
 Hural, John
 McNeill, Patricia D.
 Houghton, Raymond L.
 Vinals de Bassols, Carlota
 Foy, Teresa
 Fanger, Gary R.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C26

<140> US

<141> 2001-06-29

<160> 990

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

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<222> (1)...(814)

<223> n = A,T,C or G

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60

120

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<211> 816
<212> DNA
<213> Homo sapien

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<220>
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<222> (1)...(816)
<223> n = A,T,C or G

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<400> 2
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aagtttgcag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc 240
acagatgcct gtgtgactcc ggttctgact ttgaggagg ttgttcatca tgatcacaac 300
aaggaacggg gctcgtttat caccagttag gagcaggacg tgagcccccg cctgcacct 360
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gcccaccg cggtggagct ccagcttttg ttccctttag tgagggttaa ttgcgcgctt 480
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aacatacgag cgggaacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn 600
cattaattgc gttgcgctca ctgccgctt tccagtcggg aaaactgtcg tgccactgcn 660
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<210> 3
<211> 773
<212> DNA
<213> Homo sapien

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<220>
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<222> (1)...(773)
<223> n = A,T,C or G

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tctcaaaaag tcagaaccgg agtcacacag gcactctgtgc cgtcaaagat ttgacaccac 180
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tccatgctca tctgattggg aagttcatca gactttagtc canntccttt gatcagcagc 300
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gtcgtataga aagggtgctcc accatccaac atgttctgtc ctcgaggggg ggcccggtag 420
ccaattcgcc ctatantgag tegtattacg cgcgctcact ggccgtcgtt ttacaacgtc 480
gtgactggga aaacctggg cgttaccac ttaatcgct tgcagcacat cccctttcg 540
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acccccacnt nnaccgctta cactttgccg gcgccttanc gcccgctccc tttnccttt 720
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<210> 4
<211> 828
<212> DNA
<213> Homo sapien

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<220>
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<222> (1)...(828)
<223> n = A,T,C or G

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tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaaag 180
acgtgggtga ccatgttgtt tgtggggtgc agagatggga ggggtggggc ccacctgga 240
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acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct 360
gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt 420
ctanagcggc cgccaccgcy gtgganctcc ancttttgtt cccttttagtg agggttaatt 480
gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca 540
attccacaca acatacganc cggaacata aantgtaaac ctgggggtgcc taatgantga 600
ctaactcaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg 660
ccncttgcac tnatgaatcn gccaaacccc ggggaaaagc gtttgcgttt tgggcgctct 720
tccgcttcc cncctantta ntcctnncn tcggtcatte cggctgcngc aaaccggttc 780
accncccca aaggggggat tccggtttcc cnaatccgg gganance 828

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<210> 5
<211> 834
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

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<400> 5
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agttttaatt gcatccaag tactaacaaa aactctagca atcaagaatg gcagcatgtt 120
attttataac aatcaacacc tgtggctttt aaaatttggg tttcataaga taattttatac 180
tgaagtaa atagccatgc ttttaaaaaa tgcttttagt cactccaagc ttggcagtta 240
acatttggca taaacaataa taaaacaatc acaattta ataaatacaaa tacaacattg 300
taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420

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<210> 6
<211> 818
<212> DNA
<213> Homo sapien
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<400>	6						
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catct	acaaaatgcc	agtatcaggc	ggcggcttcg	aagccaaagt	gatgtttgga		120
agtga	aatattagtt	ggcggatgaa	gcagatagtg	aggaaagttg	agccaataat		180
gaagt	ccgtggaagc	ctgtggctac	aaaaaatggt	gagccgtaga	tgccgtcgga		240
tgaag	ggagactcga	agtactctga	ggcttgtagg	agggtaaaat	agagaccag		300
ttgta	ataagcagtg	cttgaattat	ttggtttcgg	ttgttttcta	ttagactatg		360
ctcag	gtgattgata	ctcctgatgc	gagtaatacg	gatgtgttta	ggagtgggac		420
gggga	tttagcgggg	tgatgcctgt	tgggggccag	tgccctccta	gttggggggt		480
ctagg	ctggagtggt	aaaaggctca	gaaaaatcct	gcgaagaaaa	aaacttctga		540
taaat	aggattatcc	cgtatcgaag	gccttttttg	acaggtggtg	tgtggtggcc		600
atgtg	ctttctcgtg	ttacatcgcg	ccatcattgg	tatatgttta	gtgtgttggg		660
anggc	ctantatgaa	gaaccttttg	antggaatta	aatcaatngc	ttggccggaa		720
tanga	nggctnaaaa	ggccctgtta	ngggtctggg	ctnggtttta	cccnacccat		780
ncncc	ccccggacna	ntgnatccct	attcttaa				818

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<210> 7
<211> 817
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G
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ggtttgctcc	acagatttca	gagcattgac	cgtagtatac	ccccggctgt	gtagcgggtga	180
aagtggtttg	gttttagacgt	cggggaattg	catctgtttt	taagcctaata	gtggggacag	240
ctcatgagtg	caagacgtct	tgtgatgtaa	ttattatacn	aatgggggct	tcaatcggga	300
gtactactcg	attgtcaacg	tcaaggagtc	gcaggtcgcc	tggttctagg	aataatgggg	360
gaagtatgta	ggaattgaag	attaatccgc	cgtagtcggg	gttctcctag	gttcaataacc	420
attggtggcc	aattgatttg	atggtaaggg	gagggatcgt	tgaactcgtc	tgttatgtaa	480
agqatncctt	ngggatggga	aggcnatnaa	ggactangga	tnaatggcgg	gcangatatt	540

tcaaacngtc	tctanttcct	gaaacgtctg	aaatgttaat	aanaattaan	tttngttatt	600
gaatnttnng	gaaaagggct	tacaggacta	gaaaccaa	angaaaanta	atnntaang	660
cnttatcntn	aaaggnata	accnctccta	tnatcccacc	caatngnatt	ccccacncnn	720
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<210> 8
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 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(799)
 <223> n = A,T,C or G

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cataaggaga	actttctgct	ggcacgcgct	agggacaagc	gggagagcga	ctccgagcgt	120
ctgaagcgca	cgtcccagaa	gggtggacttg	gcactgaaac	agctgggaca	catccgcgag	180
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tgggtggccg	angcctganc	cgtctgct	tgctgcccc	angtgggccc	ccaccccctg	300
acctgcctgg	gtccaaacac	tgagccctgc	tggcggactt	caagganaac	ccccacang	360
ggattttgct	cctanantaa	ggctcatctg	ggcctcggcc	ccccacctg	gttggccttg	420
tctttgangt	gagccccatg	tccatctggg	ccactgtcng	gaccaccttt	ngggagtgtt	480
ctccttacia	ccacannatg	cccggctcct	cccggaaacc	antcccancc	tgngaaggat	540
caagnccctgn	atccactnnt	nctanaaacc	gcncncnccg	cngtggaaacc	cnccttntgt	600
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gttnaaattg	ttangcnccc	nccnntcccn	cnnnnnnan	cccgaaccnn	annttnnann	720
nccctgggggt	nccnncgat	tgaccnnc	nccctntant	tgcnttnggg	nncnntgccc	780
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<210> 9
 <211> 801
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(801)
 <223> n = A,T,C or G

<400> 9						
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caaggacaag	gccaccaggt	gcggggggccg	aagcccacat	gacccctact	ctatgagcaa	180
aatccccctgt	gggggcttct	ccttgaagtc	cgccancagg	gctcagtctt	tggaccang	240
caggtcatgg	ggttgtngnc	caactggggg	cncaacgca	aaanggenca	gggcctcngn	300
cacccatccc	angacgcggc	tacactnctg	gacctccnc	tccaccactt	tcatgcgctg	360
ttcntaccgg	cgnatntgtc	ccanctgttt	cngtgcenac	tccancttct	nggaagtgcg	420
ctacatacgc	ccggantcnc	nctcccgtt	tgccctatc	cacgtncan	caacaaattt	480
cncntantg	cacnattcc	cacnttttnc	agntttccnc	nncgncttc	cttntaaaag	540
ggttganccc	cggaaaatnc	cccaaagggg	gggggcnng	tacccaactn	ccccctnata	600
gctgaantcc	ccatnaccnn	gnctcnatgg	ancntccnt	tttaannach	ttctnaactt	660

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gggaananacc ctgcncnctn ccccnnttaa tcccncccttg cnangnnnt ccccnntcc 720
ncccnntng gcntntnann cnaaaaaggc cnnnancaa tctcctnnn cctcanttgc 780
ccanccctcg aaatcgccn c 801

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<210> 10
<211> 789
<212> DNA
<213> Homo sapien

<220>
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<222> (1)...(789)
<223> n = A,T,C or G

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tctgtttaac cccatggggc tgcggcttg gccgccaat tctgttgctg ccaaantnat 720
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gngttccc 789

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<210> 11
<211> 772
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

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<400> 11
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accaacaggc cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc 180
tgtgggctga ggggacctgg ttctgtgtg ttgcccctca ggaactcttc cctacaaata 240
actttcatat gttcaaatec catggaggag tgtttcatcc tagaaactcc catgcaagag 300
ctacattaaa cgaagctgca ggtaagggg cttanagatg ggaaaccagg tgactgagtt 360
tattcagctc ccaaaaaccc ttctctaggt gtgtctcaac taggaggcta gctgttaacc 420
ctgagcctgg gtaatccacc tgcagagtc ccgcattcca gtgcatggaa ccttctggc 480
ctccctgtat aagtcagac tgaaaccccc ttggaaggnc tccagtcagg cagccctana 540
aactggggaa aaaagaaaag gacgccccan ccccagctg tgcanctacg cacctcaaca 600
gcacagggtg gcagcaaaaa aaccacttta ctttggcaca aacaaaaact ngggggggca 660
accccgac cccnangggg gttaacagga ancngggnaa cntggaacct aattnaggca 720
ggcccnccac ccnaatntt gctgggaaat ttttctccc ctaaatntt tc 772

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<210> 12
 <211> 751
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(751)
 <223> n = A,T,C or G

<400> 12
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 aagtanggtg agtcctcaaa atccgtatag ttggtgaagc cacagcactt gagccctttc 240
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 ggcactacca gcaacgtcag ggaagtgtc agccattgtg gtgtacacca aggcgaccac 360
 agcagctgcn acctcagcaa tgaagatgan gaggangatg aagaagaacg tcncgagggc 420
 acacttgctc tcagtcttan caccatanca gccctgaaa accaananca aagaccacna 480
 cnccggctgc gatgaagaaa tnaccccnccg ttgacaaact tgcatggcac tggganccac 540
 agtggcccna aaaatcttca aaaaggatgc cccatcnatt gaccccccaa atgcccactg 600
 ccaacagggg ctgccccacn cncnnaacga tgancennatt gnacaagatc tncntggtct 660
 tnatnaacnt gaacctgcn tngtggctcc tgttcaggnc cnnggcctga cttctnaann 720
 aangaactcn gaagncceca cngganannc g 751

<210> 13
 <211> 729
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(729)
 <223> n = A,T,C or G

<400> 13
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 accatgcagt gtttcagctt cattaagacc atgatgatcc tcttcaattt gctcatcttt 180
 ctgtgtggtg cagccctggt ggcagtgggc atctgggtgt caatcgatgg ggcatecttt 240
 ctgaagatct tcgggccact gtcgtccagt gccatgcagt ttgtcaacgt gggctacttc 300
 ctcatcgcag ccggcggttg ggtcttagct ctaggtttcc tgggctgcta tgggtgctaag 360
 actgagagca agtgtgccct cgtgacgttc ttcttcatcc tcctcctcat cttcattgct 420
 gaggttgcaa tgctgtggtc gccttggtgt acaccacaat ggctgagcac ttctgacgt 480
 tgctggtaat gcctgccatc aanaaaagat tatgggttcc cagggaanact tcaactcaagt 540
 gttggaacac caccatgaaa gggctcaagt gctgtggctt cnnccaacta tacggatttt 600
 gaagantcac ctacttcaaa gaaaaanagt cctttccccc atttctgttg caattgacaa 660
 acgtcccaa cacagccaat tgaaaacctg caccacaacc aaanggttcc ccaaccanaa 720
 attnaaggg 729

<210> 14
 <211> 816
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(816)

<223> n = A,T,C or G

<400> 14

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tgttcgctga	aggggttgta	gtaccagegc	gggatgctct	ccttgagag	tcctgtgtct	120
ggcaggtcca	cgcagtgcgc	tttgtcaactg	gggaaatgga	tgcgctggag	ctcgtcaaag	180
ccactcgtgt	atctttcaca	ggcagcctcg	tccgacgcgt	cggggcagtt	gggggtgtct	240
tcacactcca	ggaaactgtc	natgcagcag	ccattgctgc	agcgaactg	ggtgggctga	300
cangtgccag	agcacactgg	atggcgccct	tccatggnan	gggccctgng	ggaaagtccc	360
tganccecan	anctgcctct	caaangcccc	accttgacac	ccccgacagg	ctagaatgga	420
atcttcttcc	cgaaggttag	ttnttcttgt	tgcccaancc	anccccntaa	acaaactctt	480
gcanatctgc	tccngggggg	tctantacc	ancgtgggaa	aagaaccccc	ggcngcgaac	540
caancttggt	tggatnccga	gcnataatct	ncnttctgc	ttggtggaca	gcaccantna	600
ctgtnnanct	ttagnccntg	gtcctcntgg	ggtgnncttg	aacctaatcn	ccnntcaact	660
gggacaaggt	aantngccnt	cctttnaatt	cccnancntn	ccccctgggt	tggggttttt	720
cncnctccta	ccccagaaan	nccgtgttcc	cccccaacta	ggggccnaaa	ccnnttnttc	780
cacaaccctn	ccccaccac	gggttcngnt	ggttng			816

<210> 15

<211> 783

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 15

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atgtggaaaa	cacagattgg	cgctactgc	ggggtgacac	ggatgtcagg	gtagagagga	120
aagacccaaa	ccaggtggaa	ctgtggggac	tcaaggaang	cacctacctg	ttccagctga	180
cagtgaactag	ctcagaccac	ccagaggaca	cggccaacgt	cacagtcaact	gtgctgtcca	240
ccaagcagac	agaagactac	tgcctcgcat	ccaacaangt	gggtcgctgc	cggggctctt	300
tcccacgctg	gtactatgac	cccacggagc	agatctgcaa	gagtttcgtt	tatggaggct	360
gcttgggcaa	caagaacaac	taccttcggg	aagaagagtg	cattctancc	tgtcnggggtg	420
tgcaaggtgg	gcctttgana	ngcanctctg	gggtcangc	gactttcccc	cagggcccct	480
ccatggaaag	gcgccatcca	ntgttctctg	gcacctgtca	gcccacccag	ttccgctgca	540
ncaatggctg	ctgcactnac	antttcctng	aattgtgaca	acacccccca	ntgcccccaa	600
ccctcccaac	aaagcttccc	tgttnaaaaa	tacnccantt	ggcttttnac	aaacnccggg	660
cncctccttt	ttcccccnnn	aacaaagggc	ncnngccttt	gaactgccc	aaccnnggaa	720
tcnccnngg	aaaaantncc	ccccctgggt	cctnnaance	cctccnnaa	anctncccc	780
ccc						783

<210> 16

<211> 801

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(801)
 <223> n = A,T,C or G

<400> 16
 gcccgaattc cagctgccac accacccacg gtgactgcat tagttcggat gtcatacaaa 60
 agctgattga agcaaccctc tacttttttg tegttagcct tttgcttggt gcaggtttca 120
 ttggctgtgt tggtagacgt gtcattgcaa cagaatgggg gaaaggcact gttctctttg 180
 aagtagggtg agtcctcaaa atccgtatag ttggtgaagc cacagcactt gagccctttc 240
 atggtggtgt tccacacttg agtgaagtct tcctgggaac cataatcttt cttgatggca 300
 ggcactacca gcaacgtcag gaagtgtca gccattgttg tgtacaccaa ggcgaccaca 360
 gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgagggca 420
 cacttgctct ccgtcttagc accatagcag cccangaaac caagagcaaa gaccacaacg 480
 ccngctgcga atgaaagaaa ntacccacgt tgacaaaactg catggccact ggacgacagt 540
 tggcccgaan atcttcagaa aagggatgcc ccacgcattg aacacccana tgcccactgc 600
 cnacagggct gcncncnncn gaaagaatga gccattgaag aaggatcttc ntgggtcttaa 660
 tgaactgaaa cntgcatgg tggccccgt tcagggtctt tggcagtga ttctganaaa 720
 aaggaacngc ntnagcccc ccaaangana aaacaccccc ggggtgttgcc ctgaattggc 780
 ggccaaggan ccctgccccn g 801

<210> 17
 <211> 740
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(740)
 <223> n = A,T,C or G

<400> 17
 gtgagagcca ggcgtccctc tgcoctgccc ctcagtggca acacccggga gctgttttgt 60
 cttttgtgga gcctcagcag ttccctcttt cagaactcac tgccaagagc cctgaacagg 120
 agccaccatg cagtgttca gcttcattaa gaccatgatg atcctcttca atttgctcat 180
 ctttctgtgt ggtgcagccc tgttggcagt gggcatctgg gtgtcaatcg atggggcatc 240
 ctttctgaag atcttcgggc cactgtcgtc cagtgccatg cagtttgtca acgtgggcta 300
 cttcctcatc gcagccggcg ttgtggtctt tgctcttggt ttccctgggct gctatgggtc 360
 taagacggag agcaagtgtg ccctcgtgac gttcttcttc atcctcctcc tcctcttcat 420
 tgctgaagtt gcagctgctg tggtcgcctt ggtgtacacc acaatggctg aaccattcct 480
 gacgttgctg gtantgctg ccatcaanaa agattatggg ttcccaggaa aaattcactc 540
 aantntggaa caccnccatg aaaagggctc caatttctgn tggcttcccc aactataccg 600
 gaattttgaa agantcnccc tacttccaaa aaaaaanant tgccttttnc ccnttctgt 660
 tgcaatgaaa acntccaan acngccaatn aaaacctgcc cnnncaaaaa ggntcncaaa 720
 caaaaaaant nnaagggttn 740

<210> 18
 <211> 802
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(802)

<223> n = A,T,C or G

<400> 18

ccgctggttg	cgctgggtcca	gnagnagccac	gaagcacgtc	agcatacaca	gcctcaatca	60
caaggtcttc	cagctgccgc	acattacgca	gggcaagagc	ctccagcaac	actgcatatg	120
ggatacactt	tacttttagca	gccagggtga	caactgagag	gtgtcgaagc	ttattcttct	180
gagcctctgt	tagtggagga	agattccggg	cttcagctaa	gtagtcagcg	tatgtcccat	240
aagcaaacac	tgtgagcagc	cgaaggttag	aggcaaagtc	actctcagcc	agctctctaa	300
cattgggcat	gtccagcagt	tctccaaaca	cgtagacacc	agnggcctcc	agcacctgat	360
ggatgagtgt	ggccagcgct	gcccccttgg	ccgacttggc	taggagcaga	aattgctcct	420
ggttctgccc	tgtaaccttc	acttccgcac	tcatactgct	actgagtgtg	ggggacttgg	480
gctcaggatg	tccagagacg	tggttccgcc	ccctcnctta	atgacaccgn	ccanncaacc	540
gtcggctccc	gccgantgng	ttcgctgtn	ctgggtcagg	gtctgtgtgc	cnctacttgc	600
aancttcgtc	nggcccatgg	aattcaccnc	accggaactn	gtangatcca	ctnnttctat	660
aaccgngcgc	caccgcnmnt	ggaactccac	tcttnttnc	tttacttgag	ggttaaggtc	720
acccttnncg	ttaccttggt	ccaaaccntn	cctgtgtgtg	anatngtnaa	tengngccna	780
tnccancnc	atangaagcc	ng				802

<210> 19

<211> 731

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(731)

<223> n = A,T,C or G

<400> 19

cnaagcttcc	aggtnacggg	ccgcnaancc	tgaccnagg	tancanaang	cagnncgagg	60
gagccaccg	tcacngngng	nggtctttat	nggagggggc	ggagccacat	cnetggacnt	120
cntgacccca	actcccncc	ncncantgca	gtgatgagt	cagaactgaa	ggtnacgtgg	180
caggaaccaa	gancaaannc	tgctccnntc	caagtcggcn	nagggggcgg	ggctggccac	240
gcncatccnt	cnagtgtctg	aaagccccnn	cctgtctact	tgtttgaga	acngcnnga	300
catgcccagn	gttanataac	nggcngagag	tnantttgcc	tctcccttcc	ggctgcgcan	360
cgngtntgct	tagnggacat	aacctgacta	cttaactgaa	ccnngaate	tnccnccct	420
ccactaagct	cagaacaaaa	aacttcgaca	ccactcantt	gtcacctgnc	tgctcaagta	480
aagtgtaccc	catncccaat	gtntgctnga	ngctctgncc	tgcnttangt	tcggctctgg	540
gaagacctat	caattnaagc	tatgtttctg	actgcctctt	gctccctgna	acaancnacc	600
cnnccntcca	aggggggggnc	ggcccccac	ccccccaacc	ntnaattnan	tttancccn	660
ccccngggc	cggcctttta	cnanontenn	nnacngggna	aaaccnnngc	tttncccaac	720
nnaatccncc	t					731

<210> 20

<211> 754

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(754)

<223> n = A,T,C or G

<400> 20

```

tttttttttt tttttttttt taaaaacccc ctccattnaa tgnaaacttc cgaaattgtc      60
caacccccctc ntccaaatnn ccntttccgg gnggggggttc caaacccaan ttanntttgg      120
annttaaatt aaatnttntt tggngggnna anccnaatgt nangaaagtt naaccanta      180
tnancttnaa tncctggaaa ccngtngntt ccaaaaatnt ttaaccctta antccctccg      240
aaatngttna nggaaaaccc aanttctcnt aaggttggtt gaaggntnaa tnaaaanccc      300
nnccaattgt ttttngccac gcctgaatta attggnntcc gntgttttcc nttaaaanaa      360
ggnnancccc gggtantnaa tccccccnnc cccaattata ccganttttt ttngaattgg      420
gancccnccg gaattaacgg ggnnnntccc tnttgggggg cngggncccc ccccntccgg      480
ggttngggnc aggnncnaat tgtttaaggg tccgaaaaat ccctccnaga aaaaaanctc      540
ccaggntgag nntngggttt nccccccccc canggccoct ctcgnaagtt tgggggttgg      600
ggggcctggg attttntttc cctnttntcc tccccccccc ccnggganag aggttngngt      660
tttgntcnnc ggccccnccn aaganctttn ccganttnan ttaaatecnt gcctnggcga      720
agtcenntgn agggntaaan ggccccctnn cggg

```

```

<210> 21
<211> 755
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

```

```

<400> 21
atcancccat gaccccnnaac nngggaccnc tcanccggnc nnncnaccnc cggccnatca      60
nngtnagnnc actncnnttn natcacnccc cncnactac gcccncnanc cnacgcncta      120
nncanatncc actganngcg cgangtngan ngagaaanct nataccanag ncaccanacn      180
ccagctgtcc nanaangcct nnnatacnng nnnatccaat ntgnancctc cnaagtattn      240
nncnncanat gattttcctn anccgattac cctntcccc cctnccctcc cccccaacna      300
cgaaggcnct ggncnaagg nngcgncncc ccgctagntc cccnncnaagt cncncncccta      360
aactcanccn nattacnccg ttcntgagta tcactccocg aatctcacc tactcaactc      420
aaaaanatch gatacaaaat aatncaagcc tgnttatnag actntgactg ggtctctatt      480
ttagnngtcc ntnaanctc ctaatacttc cagctctncc tcnccaattt ccnaanggct      540
ctttcngaca gcatnttttg gttcccnntt ggggttcttan ngaattgccc ttcntngaac      600
gggctcntct tttccttcgg ttancctggg ttcnncocgg cagttattat ttcccntttt      660
aaattcntnc cntttanttt tggcnttcna aacccccggc cttgaaaacg gccccctggt      720
aaaaggttgt tttganaaaa tttttgtttt gtccc

```

```

<210> 22
<211> 849
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

```

```

<400> 22
tttttttttt tttttangtg tngtcgtgca ggtagaggct tactacaant gtgaanacgt      60
acgctnggan taangcgacc cgantttctag ganncnccct aaaatcanac tgtgaagatn      120
atcctgnnna cggaanggtc accggnggat nntgctaggg tgnccnctcc cannnenttn      180
cataactcng nggcctgcc caccaccttc ggcggcccng ngncggggcc cgggtcattn      240

```



```
<210> 25
<211> 775
<212> DNA
<213> Homo sapien
```

<400>	25						
atgtc	tcgctccgtg	gccttagctg	tgctcgcgct	actctctctt	tctggcctgg		60
atcca	gcgtactcca	aagattcagg	tttactcacg	tcatccagca	gagaatggaa		120
aattt	cctgaattgc	tatgtgtctg	ggtttcatcc	atccgacatt	gaanttgaact		180
aagaa	tgganagaga	attgaaaaag	tgagcattc	agacttgtct	ttcagcaagg		240
cttt	ctatctcntg	tactacactg	aattcacccc	cactgaaaaa	gatgagtatg		300
cggtg	gaaccatgtg	actttgtcac	agcccaagat	agttaagtgg	gatcgagaca		360
gcagn	cnnecatggaa	gtttgaagat	gccgcatttg	gattggatga	attocaaatt		420
cgctt	gcntttttaat	antgatatgc	ntatacaccc	taccttttat	gnccccaaat		480
gggtt	acatnantgt	tcnctntngga	catgatcttc	ctttataant	ccnccnttcg		540
cccg	cncocngttn	ngaattgttc	cnaaccacg	gttggtctcc	ccaggtcncc		600
cggaa	gggcctgggc	cncctttncaa	ggttggggga	accnaaaatt	tcncttntgc		660
cncca	cnntcttng	nnncantttt	ggaacccttc	cnattccctt	tggcctcnaa		720
nncta	anaaaacttn	aaancgtngc	naaanntttn	acttcccccc	ttacc		775

```
<210> 26
<211> 820
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(820)  
<223> n = A,T,C or G
```

<400>	26						
anattantac	agtgtaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat		60
cccanagata	ncttatanca	acagtgcttt	gaccaagagc	tgctgggcac	atttcctgca		120
gaaaagggtg	cggtcccat	cactcctcct	ctcccatagc	catcccagag	gggtgagtag		180
ccatcangcc	ttcggtgga	gggagtcang	gaaacaacan	accacagagc	anacagacca		240
ntgatgacca	tgggggggag	cgagcctctt	ccctgnaccg	gggtggcana	nganagccta		300
ntgaggggt	cacactataa	acgttaacga	ccnagatnan	cacctgcttc	aagtgcaccc		360
ttcctacctg	acnaccagng	accnnaact	gcngcctggg	gacagcncctg	gganacagcta		420

```

acnnagcaact cacctgcccc cccatggccg tncgcntccc tggtcctgnc aagggaaagct      480
ccctgttgga attncgggga naccaaggga nccccctcct ccancgtgtga aggaaaaaann      540
gatggaattt tnccttcccg gccnntcccc tcttccctta cacgccccct nntactcntc      600
tccctctntt ntectgnenc acttttnacc ccnnnatctt ccttnattga tcggannctn      660
ganattccac tnnccgctnc cntcnatcng naanacnaaa nactntctna cccnggggat      720
gggnncctcg ntcatectct ctttttcnct accnccnntt ctttgccctct ccttngatca      780
tccaaccntc gntggccntn ccccccnnn tccttttccc      820

```

```

<210> 27
<211> 818
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

```

```

<400> 27
tctgggtgat ggccctcttc tectcaggga cctctgactg ctctgggcca aagaatctct      60
tgtttcttct ccgagcccca ggcagcgggtg attcagccct gcccaacctg attctgatga      120
ctgcggtatgc tgtgacggac ccaaggggca aatagggtcc caggggccag ggaggggcgc      180
ctgctgagca ctcccgcccc tcacctgcc cagccctgc catgagctct gggctgggtc      240
tcgcctcca gggttctgct ctccangca ngccancaag tggcgtggg ccacactggc      300
ttcttcctgc ccntccctg gctctganc tctgtcttc tgtcctgtgc angnccttg      360
gatctcagtt tccctcnctc anngaactct gtttctgann tcttcantta actntgantt      420
tatnaccnan tggnetgtnc tgtcnnactt taatgggcn gaccggctaa tccctccctc      480
nctcccttcc anttcnnnna accngcttnc cntcntctcc ccntancccg ccngggaanc      540
ctcctttgcc ctnaccangg gccnnnaccg ccntnnctn ggggggcnn gtnnctncnc      600
ctgntnnccc cncctcnnt tncctcgtec cnnccnccn nngcannttc ncngtcccn      660
tnnctcttcn ngntcgnaa ngntcnctn tnnnnngnch ngntnntnch tccctctcnc      720
cnnntgnang tnnttnnnnc ncngncccc nnnnchnnnn nggnntnnn tctnccngc      780
cccnccccc ngnattaagg cctccnntct ccggccnc      818

```

```

<210> 28
<211> 731
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

```

```

<400> 28
aggaagggcg gagggatatt gtangggatt gagggatagg agnataangg gggaggtgtg      60
tccaacatg anggtgnngt tctcttttga angaggttg ngtttttann ccnggtgggt      120
gattnaaccc cattgtatgg agnnaaagg ttnnaggat ttttcggctc ttatcagtat      180
ntanattcct gtnaatcgga aaatnatntt tcnnccggaa aatnttgctc ccatccgnaa      240
attnctcccg ggtagtgcatt nttngggggn cngccangtt tcccaggetg ctanaatcgt      300
actaaagntt naagtgggan tncaaatgaa aacctnnac agagnatccn taccgcactg      360
tnnnttncct tcgccctntg actctgcnn agcccaatac ccnngnngnat gtcncccnng      420
nnngcgnenc tgaaannnnc tcngggctnn gancatcang gggtttcgca tcaaaagenn      480
cgtttcnat naaggcactt tngcctcatc caaccnctng ccctcncca tttngccgtc      540

```

```
<210> 29
<211> 822
<212> DNA
<213> Homo sapien
```

<400> 29

```
<210> 30
<211> 787
<212> DNA
<213> Homo sapien
```

<400> 30

cggcgccctg	ctctggcaca	tgcctcctga	atggcatcaa	aagtgatgga	ctgccattg	60
ctagagaaga	ccttctctcc	tactgtcatt	atggagccct	gcagactgag	ggctcccctt	120
gtctgcagga	tttgatgtct	gaagtcgtgg	agtgtggctt	ggagctcctc	atctacatna	180
gctggaagcc	ctggaggggc	tctctcgcca	gcctccccct	tctctccacg	ctctccangg	240
acaccagggg	ctccaggcag	cccattattc	ccagnangac	atgggtgttc	tccacgcgga	300
cccatggggc	ctgnaaggcc	agggtctcct	ttgacaccat	ctctcccgtc	ctgcctggca	360
ggccgtggga	tccactantt	ctanaacggn	cgccaccncg	gtgggagctc	cagcttttgt	420
tcccnttaat	gaaggttaat	tgncgccttg	gcgtaatcat	nggtcanaac	tntttcctgt	480
tgaagaattg	ttntcccttc	ncnattccnc	ncnacatacn	aaccgcgaan	cataaagtgt	540
taagacctgg	gggtngcctn	nngaataaac	tnaactcaat	taattgcgtt	ggctcatggc	600
ccgctttccn	ttcnggaaaa	ctgtctctcc	ctgcntntnt	gaatcgcca	cccccatggg	660
aaaagcggtt	tgcnttttnq	gggntcctt	ccncttcccc	cctcnctaan	ccctncgctt	720

eggtcgttnc nggtngcggg gaangggnat nnnctcccnc naagggggng agnnngntat 780
ccccaaa 787

<210> 31
<211> 799
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

<400> 31

tttttttttt	tttttttggc	gatgctactg	tttaattgca	ggaggtgggg	gtgtgtgtac	60
catgtaccag	ggctattaga	agcaagaagg	aaggaggag	ggcagagcgc	cctgctgagc	120
aacaaaggac	tcctgcagcc	ttctctgtct	gtctcttggc	gcaggcacat	ggggaggcct	180
cccgagggt	gggggccacc	agtccagggg	tgggagcact	acanggggtg	ggagtgggtg	240
gtggtggtn	cnaatggcct	gncacanatc	cctacgattc	ttgacacctg	gatttcacca	300
ggggaccttc	tgttctccca	nggnaacttc	ntnnatctcn	aaagaacaca	actgtttctt	360
cngcanttct	ggctgttcat	ggaaagcaca	ggtgtccnat	ttnggctggg	acttgggtaca	420
tatggttccg	gccacacctc	ccntcnaaan	aagtaattca	ccccccccc	ccntctnttg	480
cctgggccct	taantaccca	caccggaact	canttantta	ttcatcttng	gntgggcttg	540
ntnatcnecn	cctgaangcg	ccaagttgaa	aggccacgcc	gtncnccnctc	cccatagnan	600
nttttnnct	canctaatac	ccccccnngc	aacnatccaa	tccccccccc	tggggggccc	660
agccanggc	ccccgnctcg	ggnnnccngn	cnngnantcc	ccaggntctc	ccantcngnc	720
ccnnngcncc	cccgacgcga	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnncnac	780
ctcgcccccc	ccnncgnng					799

<210> 32
<211> 789
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
ttttnccnag	ggcaggttta	ttgacaacct	cnccgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tcgggcggcg	gcggcgggcg	ccctacctgc	ggtaccaaata	ntgcagcctc	180
cgctcccgc	tgatnttcc	ctgcagctgc	aggatgccnt	aaaacagggc	ctcggccntn	240
ggtgggcacc	ctgggatttn	aatttccacg	ggcacaatgc	ggtcgcanc	cctcaccacc	300
nattaggaat	agtgtntta	ccnccnccg	ttggcncaact	cccctgggaa	accacttntc	360
gcggctccgg	catctggtct	taaaccttgc	aaacnctggg	gcctcttttt	tggttantnt	420
nccngccaca	atcatnactc	agactggcnc	gggctggccc	caaaaaancn	ccccaaaacc	480
ggncatgtc	ttnccgggt	tgtctgenatn	tncatcacct	cccgggcnca	ncaggncaac	540
ccaaaagtgc	ttgnggcccn	caaaaaanct	ccggggggnc	ccagtttcaa	caaagtcatc	600
ccccttggcc	cccaaactct	ccccccgntt	netgggtttg	ggaacccacg	cctctnnctt	660
tggngggcaa	gntggntccc	ccttcggggc	cccgggtggc	ccnctctaa	ngaaaacncc	720
ntcctnnnca	ccatcccccc	nngnnacgnc	tancaangna	tccctttttt	tanaaacggg	780
ccccccncc						789

<210> 33
 <211> 793
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(793)
 <223> n = A,T,C or G

<400> 33

gacagaacat	gttggatggt	ggagcacctt	tctatacgac	ttacaggaca	gcagatgggg	60
aattcatggc	tggtggagca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtattt	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttgttcat	catgatcaca	300
acaangaacg	gggctcgttt	atcaccantg	aggagcagga	cgtgagcccc	cgccctgcac	360
ctctgctgtt	aaacacccca	gccatccctt	ctttcaaaaag	ggatccacta	cttctagagc	420
ggncgccacc	gcggtggagc	tccagctttt	gttcccttta	gtgagggtta	attgcgcgct	480
tggcgtaatc	atggtcatan	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	540
acaacatacg	anccggaagc	atnaaatttt	aaagcctggn	ggtngcctaa	tgantgaact	600
naetcacatt	aattggcttt	gcgctcactg	cccgttttcc	agtccggaaa	acctgtcctt	660
gccagctgcc	nttaatgaat	cnggccaccc	cccggggaaa	aggcngtttg	cttnttgggg	720
cgcncctccc	gctttctcgc	ttcctgaant	ccttcccccc	ggtctttcgg	cttgcggcna	780
acggtatcna	cct					793

<210> 34
 <211> 756
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(756)
 <223> n = A,T,C or G

<400> 34

gccgcgaccg	gcatgtacga	gcaactcaag	ggcgagtgga	accgtaaaaag	ccccaatctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagttc	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tggcccgtag	catactggag	180
atcggggccc	aatggagcat	cctacgcaan	gacatcccct	ccttcgagcg	ctacatggcc	240
cagctcaaat	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttgg	gcctcaacct	cctcttctctg	ctgtcccaga	accgggtggc	tgantnccac	360
acgganttgg	ancggctgcc	tgcccaanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtccttga	gcaatactga	tgganggcag	ctaccncaaa	gtnttctctg	ccnagggtaa	480
catccccccg	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcagggatg	540
aaaatcgcn	ggttgctcca	gaaaggctnc	aanaanatcc	tttctnctga	aggcccccg	600
atnncntagt	nctagaatcg	gcccgccatc	gcggtgganc	ctccaacctt	tcgttnccct	660
ttactgaggg	ttnattgccg	cccttgccgt	tatcatggtc	acnccngttn	cctgtgttga	720
aattnttaac	ccccacaaat	tccacgcna	cattn			756

<210> 35
 <211> 834

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

<400> 35

ggggatctct	anatchacct	gnatgcatgg	ttgtcgggtgt	ggtcgctgtc	gatgaanatg	60
aacaggatct	tgcccttgaa	gctctcggct	gctgntttaa	agttgctcag	tctgccgtca	120
tagtcagaca	cnctcttggg	caaaaaacan	caggatntga	gtcttgattt	cacctccaat	180
aatcttcngg	gctgtctgct	cggatgaactc	gatgacnang	ggcagctggg	tgtgtntgat	240
aaantccanc	angttctcct	tggatgaactc	cccttcaaag	ttgttccggc	cttcatcaaa	300
cttctnnaan	angannancc	canttttgct	gagctgggat	ttgganaaca	cgtcactggt	360
ggaaactgat	cccaaattgg	atgtcatcca	tgcctctgtc	tgcctgcaaa	aaacttgctt	420
ggcncaaatac	cgactccccn	tccttgaaag	aagcncatca	cacccccctc	cctggactcc	480
nncaangact	ctnccgctnc	ccntccnng	caggggttgt	ggcannccgg	gcccctgcgc	540
ttcttcagcc	agttcacnat	nttcatcagc	ccctctgcc	gctgttntat	tccttggggg	600
ggaanccgtc	tctcccttcc	tgaannaact	ttgaccgtng	gaatagccgc	gentcncnt	660
acntnctggg	ccgggttcaa	antccctccn	ttgncnntcn	cctcgggcca	ttctggattt	720
nccnaacttt	ttccttcccc	cncctccnng	ngtttggnnt	tttcatnggg	ccccaaactc	780
gctnttgccc	antccctctg	gggcntntan	cncctccnt	ggc		834

<210> 36
<211> 814
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

<400> 36

cgngcgtttt	cngccgcgc	cccgtttcca	tgaacnaaggc	tccttccang	ttaaatacnn	60
cctagnaaac	attaatgggt	tgtctacta	atacatcata	cnaaccagta	agcctgccca	120
naacgccaac	tcaggccatt	cctaccaaag	gaagaaaggc	tggtctctcc	acccctgta	180
ggaaaggcct	gccttgtaag	acaccacaat	ncggctgaat	ctnaagtctt	gtgttttact	240
aatggaaaaa	aaaaataaac	aanagggttt	gttctcatgg	ctgcccaccg	cagcctggca	300
ctaaaacanc	ccagcgctca	cttctgcttg	ganaaatatt	ctttgctctt	ttggacatca	360
ggcttgatgg	tatcactgcc	acntttccac	ccagctgggc	ncccttcccc	catntttgtc	420
antganctgg	aaggcctgaa	ncttagtctc	caaaagtctc	ngcccacaag	accggccacc	480
aggggagntc	ntttncagtg	gatctgccaa	anantaccn	tatcatcnnt	gaataaaaag	540
gcccctgaac	ganatgcttc	cancancctt	taagacccat	aatcctngaa	ccatgggtgcc	600
cttcgggtct	gatecnaaag	gaatgttcc	gggtcccant	ccctcctttg	ttnccttaagt	660
tgtnttggac	cctgtctngn	atnaccnaan	tganatcccc	ngaagcacc	tnccctggc	720
atttganttt	cntaaattct	ctgccctach	nctgaagca	cnattccctn	ggcncnnaan	780
ggngaactca	agaaggctcn	ngaaaaacca	cncn			814

<210> 37
<211> 760
<212> DNA
<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(760)
 <223> n = A,T,C or G

<400> 37
 gcatgctgct cttectcaaa gttgttcttg ttgccataac aaccaccata ggtaaagcgg 60
 gcgcagtgtt cgctgaagg gttgtagtac cagcgcgga tgctctcctt gcagagtcct 120
 gtgtctggca ggtccacgca atgccctttg tcaactggga aatggatgcg ctggagctcg 180
 tcnaanccac tcgtgtatatt ttcacangca gcctcctccg aagcntccgg gcagttgggg 240
 gtgtcgtcac actccactaa actgtcgatn cancagccca ttgctgcagc ggaactgggt 300
 gggctgacag gtgccagaac aactggatn ggcttttcca tggaggggcc tgggggaaat 360
 cncctnancc caaactgcct ctcaaaggcc accttgaca ccccgacagg ctagaaatgc 420
 actcttcttc ccaaaggtag ttgttcttgt tgcccaagca ncctccanca aacccaaanc 480
 ttgcaaaatc tgctccgtgg gggcatnnn taccanggtt ggggaaanaa acccgcnngn 540
 ganccncctt gtttgaatgc naaggnaata atcctcctgt cttgcttggg tggaaanagca 600
 caattgaact gttaacnttg ggccngttc cncnggggt gtctgaaact aatcacggtc 660
 actggaaaaa ggtangtgcc ttccttgaat tcccaaannt cccctngntt tgggtntttt 720
 ctctctncc ctaaaaatcg tnttcccccc cntanggcg 760

<210> 38
 <211> 724
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(724)
 <223> n = A,T,C or G

<400> 38
 tttttttttt tttttttttt tttttttttt tttttaaaaa cccctccat tgaatgaaaa 60
 ctccnaaat tgtccaacc cctcnccaa atnccattt ccgggggggg gttccaaacc 120
 caaatattt ttgganttta aattaaatnt tnattngggg aanaanccaa atgtnaagaa 180
 aatttaacc attatnaact taaatnctn gaaaccntg gnttccaaaa atttttaacc 240
 cttaaattcc tcgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggt 300
 ngatttaaac ccccttnant tnttttnacc cngnctnaa ntatttngnt tccggtgttt 360
 tctnttaan cntnggtaac tcccngtaat gaannnccct aanccaatta aaccgaattt 420
 tttttgaatt ggaaattccn ngggaattna ccgggggttt tccnttttg gggccatncc 480
 cccnctttcg gggtttgggn ntagggtgaa tttttnnang nccccaaaaa ncccccaana 540
 aaaaaactcc caagnnttaa ttngaantnc ccccttccca ggccttttg gaaaggnggg 600
 ttnttggggg ccngggantt cnttccccn ttncncccc cccccnggt aaanggttat 660
 ngnttttgt ttttgggcc cttnanggac cttccgatn gaaattaaat ccccggnngc 720
 gccg 724

<210> 39
 <211> 751
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(751)

$\langle 223 \rangle$ n = A, T, C or G

<400> 39

tttttttttt	tttttctttg	ctcacattta	atttttattt	tgattttttt	taatgctgca	60
caacacaata	tttatttcat	ttgtttcttt	tatttcattt	tatttgtttg	ctgctgctgt	120
tttatttatt	tttactgaaa	gtgagaggga	acttttgtag	ccttttttcc	tttttctgta	180
ggccgcctta	agctttctaa	atttggaaca	tctaagcaag	ctgaanggaa	aaggggggtt	240
cgcaaaatca	ctcgggggaa	nggaaagggt	gctttgtaa	tcatgcccta	tgggtgggtga	300
ttaactgctt	gtacaattac	ntttcacttt	taattaattg	tgctnaangc	tttaattana	360
cttggggggt	ccctccccc	accaaccccn	ctgacaaaa	gtgccngccc	tcaaatnatg	420
tcccgccnnt	cnttgaaaca	cacngcngaa	ngttctcatt	ntcccccnc	caggtnaaaa	480
tgaagggtta	ccatntttta	cncacactcc	acntggcnnn	gcctgaatcc	tcaaaaaanc	540
ccctcaancn	aattncnng	ccccggtcnc	gcntnngtcc	cncccgggct	ccgggaantn	600
caccaccnga	anncnntnnc	naacnaaatt	ccgaaaatat	tcccnntcnc	tcaattcccc	660
cnnagactnt	cctcnncnan	cnaaattttc	tttntntcac	gaacncgnnc	cnnaaaatgn	720
nnnnnccttc	cnetnqtccn	naatcnccan	c			751

<210> 40

<211> 753

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (753)$
$$\langle 223 \rangle \quad n = A, T, C \text{ or } G$$

<400> 40

gtggtatttt	ctgtaagatc	aggtgttcct	cctcgtag	tttagaggaa	acacctcat	60
agatgaaaac	cccccgaga	cagcagcact	gcaactgcc	agcagccggg	gtaggagggg	120
cgccctatgc	acagctgggc	ccttgagaca	gcagggttc	gatgtcaggc	tcgatgtcaa	180
tggctcggaa	gcggcggtg	tacctgcgta	ggggcacacc	gtcagggcc	accaggaact	240
tctcaaagtt	ccaggcaacn	tcgttgcgac	acaccggaga	ccaggtgatn	agcttggggg	300
cggtcataan	cgcggtggcg	tcgtcgtctg	gagctggcag	ggcctccgc	aggaaggcna	360
ataaaagggtg	cgccccgcga	ccgttcant	cgcacttctc	naanaccatg	angttgggct	420
cnaaccacc	accannccgg	acttccttga	nggaattccc	aaatctcttc	gntcttgggc	480
ttctnctgat	gccttancgt	gttgccnngn	atgccaanca	cccccaance	ccggggctct	540
aaanaccn	cctctanttt	tcacttgggt	tntntcccc	ggacctgggt	tcctctcaag	600
ggancccata	tctcnaccan	tactcacnt	nccccccnt	gnnaccanc	cttctanngn	660
ttccncccg	ncctctggcc	cntcaaan	gcttnacna	cctgggtctg	ccttcccccc	720
tnccctatct	gnaccnncn	tttgtctcan	tnt			753

<210> 41

 $\langle 211 \rangle$ 341

<212> DNA

<213> Homo sapien

<400> 41

actatatcca	tcacaacaga	catgtttcat	cccatagact	tcttgacata	gcttcaaattg	60
agtgaaccca	tccttgattt	atatacatat	atgtttctcag	tatttttgga	gcctttccac	120
ttctttaaac	cttggttcatt	atgaacactg	aaaataggaa	tttgtgaaga	gttaaaaagt	180
tatagcttgt	ttacgtagta	agttttttgaa	gtctacattc	aatccagaca	cttagttgag	240
tgttaaactg	tgatttttaa	aaaatatcat	ttgagaatat	tccttcagag	gtattttcat	300
ttttactttt	tgattaattg	tgttttatat	attagggtag	t		34


```
<210> 45
<211> 234
<212> DNA
<213> Homo sapien
```

```

<400> 45
acaacagacc cttgctcgt aacgacctca tgtcatcaa gttggacgaa tccgtgtccg      60
agtctgacac catccggagc atcagcattg cttcgcagtg ccctaccgcg gggaactctt      120
gcctcgtttc tggctggggg ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg      180
tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgaccgg ctgt          234

```

```

<210> 46
<211> 590
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(590)
<223> n = A,T,C or G

```

```

<400> 46
actttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atggtgtgta      60
atttgatagc aatatttttg agattacaga gttttagtaa ttaccaatta cacagttaaa      120
aagaagataa tatattccaa gcanatacaa aatatctaag gaaagatcaa ggcaggaaaa      180
tgantataac taattgacaa tggaaaatca attttaatgt gaattgcaca ttatccttta      240
aaagctttca aaanaanaaa ttattgcagt ctanttaatt caaacagtgt taaatgggtat      300
caggataaan aactgaaggg canaaagaat taattttcac ttcattgtaac ncacccanac      360
ttacaatggc ttaaatgcan ggaaaaagca gtggaagtag ggaagtantc aaggtctttc      420
tgggtctctaa tctgccttac tctttgggtg tggctttgat cctctggaga cagctgccag      480
ggctcctgtt atatccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct      540
gccttccttt gaggagactt catctcactg gccaacactc agtcacatgt          590

```

```

<210> 47
<211> 774
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

```

```

<400> 47
acaagggggc ataatgaagg agtggggana gatttttaaag aaggaaaaaa aacgaggccc      60
tgaacagaat tttcctgnac aacggggcct caaaataatt ttcttgggga ggttcaagac      120
gcttcaactgc ttgaaactta aatggatgtg ggacanaatt ttctgtaatg accctgaggg      180
cattacagac gggactcttg gaggaaggat aaacagaaag gggacaaaag ctaatcccaa      240
aacatcaaag aaaggaagggt ggcgtcatal ctcccagcct acacagtctc ccagggtctc      300
cctcatccct ggaggacgac agtggaggaa caactgacca tgtccccagg ctctgtgtg      360
ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgctgat cctgcgtggc      420
ccacactcct tgaacacaca tcccaggtt atattccttg acatggctga acctoctatt      480
cctacttccg agatgccttg ctccctgcag cctgtcaaaa tcccactcac cctccaaaacc      540
acggcatggg aagcctttct gacttgcttg attactccag catcttgga caatccctga      600
ttccccactc cttagaggca agataggggt gttaagagta gggctggacc acttgagacc      660
aggtcgtcgg cttcaaattn tggctcattt acgagctatg ggaccttggg caagtnatct      720
tcacttctat gggcttcatt ttgttctacc tgcaaaatgg gggataataa tagt          774

```

<210> 48
 <211> 124
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(124)
 <223> n = A,T,C or G

<400> 48
 canaaattga aattttataa aaaggcattt ttctottata tccataaaat gatataattt 60
 ttgcaantat anaaatgtgt cataaattat aatgttcott aattacagct caacgcaact 120
 tggt 124

<210> 49
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 49
 gccgatgcta ctattttatt gcaggagggtg ggggtgtttt tattattctc tcaacagctt 60
 tgtggctaca ggtgggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120
 ttagggcacc catatcccaa gcantgt 147

<210> 50
 <211> 107
 <212> DNA
 <213> Homo sapien

<400> 50
 acattaaatt aataaaagga ctgttgggggt tctgctaaaa cacatggctt gatatatattgc 60
 atggtttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51
 <211> 204
 <212> DNA
 <213> Homo sapien

<400> 51
 gtcttaggaa gtctaggga cacacgactc tggggtcacg gggccgacac acttgacagg 60
 cggaaggaa aggcagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag 120
 gccttgcaag gtcagaaagg ggactcaggg ctccaccac agccctgccc cacttgcca 180
 cctccctttt gggaccagca atgt 204

<210> 52
 <211> 491
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(491)
 <223> n = A,T,C or G

<400> 52
 acaaagataa catttatctt ataacaaaaa tttgatagtt ttaaagggtta gtattgtgta 60
 ggggtattttc caaaagacta aagagataac tcagggtaaaa agttagaaat gtataaaaaca 120
 ccatcagaca gggtttttaa aaacaacata ttacaaaatt agacaatcat ccttaaaaaa 180
 aaaacttctt gtatcaattt cttttgttca aaatgactga cttaantatt tttaaatatt 240
 tcanaaacac ttcttcaaaa attttcaana tggtagcttt canatgtncc ctcagtccca 300
 atgttgctca gataaataaa tctcgtgaga acttaccacc caccacaagc tttctggggc 360
 atgcaacagt gtcttttctt tnttttttct tttttttttt ttacaggcac agaaactcat 420
 caattttatt tggataacaa agggctctcca aattatattg aaaaataaat ccaagttaat 480
 atcactcttg t 491

<210> 53
 <211> 484
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(484)
 <223> n = A,T,C or G

<400> 53
 acataattta gcagggctaa ttaccataag atgctattta ttaanaggtn tatgatctga 60
 gtattaacag ttgctgaagt ttgggtattt tatgcagcat tttctttttg ctttgataac 120
 actacagaac ccttaaggac actgaaaatt agtaagtaaa gttcagaaac attagctgct 180
 caatcaaate tctacataac actatagtaa ttaaaacggt aaaaaaaagt gttgaaatct 240
 gcactagtat anaccgtcc tgtcaggata anactgctt ggaacagaaa gggaaaaanc 300
 agctttgant tttttgtgct tgatangagg aaaggctgaa ttaccttggt gcctctccct 360
 aatgattggc aggtcnggta aatnccaaaa catattccaa ctcaacactt cttttccncc 420
 tancttgant ctgtgtattc caggancagg cggatggaat gggccagccc ncggatgttc 480
 cant 484

<210> 54
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 54
 actaaacctc gtgcttgatga actccatata gaaaacggtg ccatccctga acacggctgg 60
 ccactgggta tactgctgac aaccgcaaca acaaaaaacac aaatccttgg cactggctag 120
 tctatgtcct ctcaagtgcc tttttgtttg t 151

<210> 55
 <211> 91
 <212> DNA
 <213> Homo sapien

<400> 55

acctggcttg tctccgggtg gttcccggcg ccccccaagg tccccagaac ggacactttc 60
gccctccagt ggatactcga gccaaagtgg t 91

<210> 56
<211> 133
<212> DNA
<213> Homo sapien

<400> 56
ggcggatgtg cgttggttat atacaaatat gtcattttat gtaagggact tgagtatact 60
tggatttttg gtatctgtgg gttgggggga cggtcacagga accaataccc catggatacc 120
aagggacaac tgt 133

<210> 57
<211> 147
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(147)
<223> n = A,T,C or G

<400> 57
actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtgggcgc 60
gactggggagc tgagcccttc cctttgcgcc tgccacagag gattgttgcc gacntgcana 120
totcantggg ctggatncat gcagggt 147

<210> 58
<211> 198
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(198)
<223> n = A,T,C or G

<400> 58
acagggatat aggtttnaag ttattgtnat tgtaaaatac attgaatttt ctgtatactc 60
tgattacata catttatcct ttaaaaaaga tgtaaatcct aatttttatg ccatctatta 120
atttaccaat gagttacctt gtaaatgaga agtcatgata gcaactgaatt ttaactagtt 180
ttgaattota agtttggt 198

<210> 59
<211> 330
<212> DNA
<213> Homo sapien

<400> 59
acaacaaatg ggttgtgagg aagtcttatac agcaaaactg gtgatggcta ctgaaaagat 60
ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaaactc actcaatttt 120
cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa 180
tacagtcaat aaatgacaaa gccagggcct acagggtggt tccagacttt ccagaccag 240

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<210> 60
<211> 175
<212> DNA
<213> Homo sapien
```

```
<210> 61
<211> 154
<212> DNA
<213> Homo sapien
```

```
<210> 62
<211> 30
<212> DNA
<213> Homo sapien
```

```
<210> 63
<211> 89
<212> DNA
<213> Homo sapien
```

```
<210> 64
<211> 97
<212> DNA
<213> Homo sapien
```

```
<210> 65
<211> 377
<212> DNA
<213> Homo sapien
```

<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 65
 acaacaanaa ntcccttctt taggccactg atggaaacct ggaacccctt tttgatggca 60
 gcatggcgtc ctaggccttg acacagcggc tgggggtttg gctntccaa accgcacacc 120
 ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcagggt 180
 tcggtcataa natgaaatcc caanggggac agaggtcagt agaggaagct caatgagaaa 240
 ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaacccg 300
 tgggggtgaa ctaccccca gaggaatcat gcctgggcga tgcaanggtg ccaacaggag 360
 gggcgggagg agcatgt 377

<210> 66
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 66
 acgcctttcc ctcagaattc agggaagaga ctgtcgcttg ccttcctccg ttgttgctg 60
 agaaccctg tgcccccttc caccatatcc accctcgctc catctttgaa ctcaaacacg 120
 aggaactaac tgcaccctgg tctctctccc agtccccagt tcaccctcca tccctcacct 180
 tctccactc taagggatat caacactgcc cagcacaggg gccctgaatt tatgtggttt 240
 ttatatattt ttttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac 300
 tggtt 305

<210> 67
 <211> 385
 <212> DNA
 <213> Homo sapien

<400> 67
 actacacaca ctccaattgc ccttgtgaga cactttgtcc cagcacttta ggaatgctga 60
 ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcaggt ctgagagttc 120
 cccttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc 180
 tgtgctgtgc tggagattca cttttgagag agttctctc tgagacctga tctttagagg 240
 ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg 300
 cctctcccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgcccatac 360
 catagtttct gtgctagtgg accgt 385

<210> 68
 <211> 73
 <212> DNA
 <213> Homo sapien

<400> 68
 acttaaccag atatatatttt accccagatg gggatattct ttgtaaaaaa tgaaaataaa 60
 gtttttttaa tgg 73

<210> 69
 <211> 536
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(536)
 <223> n = A,T,C or G

<400> 69
 actagtccag tgtggtggaa ttccattgtg ttgggggctc tcaccctcct ctccctgcagc 60
 tccagctttg tgctctgcct ctgaggagac catggcccag catctgagta ccctgctgct 120
 cctgctggcc accctagctg tggccctggc ctggagcccc aaggaggagg ataggataat 180
 cccgggtggc atctataacg cagacctcaa tgatgagtgg gtacagcgtg cccttcactt 240
 cgccatcagc gagtataaca aggccaccaa agatgactac tacagacgtc cgctgcgggt 300
 actaagagcc aggcaacaga ccgttggggg ggtgaattac ttcttcgacg tagaggtggg 360
 ccgaaccata tgtaccaagt cccagcccaa cttggacacc tgtgccttcc atgaacagcc 420
 agaactgcag aagaaacagt tgtgctcttt cgagatctac gaagttccct ggggagaaca 480
 gaangtcctt ggggtgaaac caggtgtcaa gaaatcctan ggatctgttg ccaggc 536

<210> 70
 <211> 477
 <212> DNA
 <213> Homo sapien

<400> 70
 atgaccoccta acagggggccc tctcagccct cctaattgacc tccggcctag ccatgtgatt 60
 tcaactccac tccataacgc tccctcatact aggcctacta accaacacac taaccatata 120
 ccaatgatgg cgcgatgtaa cagagaaaag cacataccaa ggccaccaca caccacctgt 180
 ccaaaaaggc cttegatacg ggataatcct atttattacc tcagaagttt ttttcttcgc 240
 agggattttt ctgagccttt taccactcca gcctagcccc tcccccccaa ctaggagggc 300
 actggccccc aacaggcatc accccgctaa atcccctaga agtcccactc ctaaacacat 360
 ccgtattact cgcattcagga gtatcaatca cctgagctca ccatagtcta atagaaaaca 420
 accgaaacca aattattcaa agcactgctt attacaattt tactgggtct ctatttt 477

<210> 71
 <211> 533
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(533)
 <223> n = A,T,C or G

<400> 71
 agagctatag gtacagtgtg atctcagctt tgcaaacaca ttttctacat agatagtact 60
 aggtattaat agatatgtaa agaaagaaat cacaccatta ataatggtaa gattggttta 120
 tgtgatttta gtggtatttt tggcaccctt atatatgttt tccaaacttt cagcagtgat 180
 attatttcca taacttaaaa agtgagtttg aaaaagaaaa tctccagcaa gcatctcatt 240
 taaataaagg tttgtcatct ttaaaaatac agcaatatgt gactttttta aaaaagctgtc 300
 aaataggtgt gacctacta ataattatta gaaatacatt taaaaacatc gagtacctca 360
 agtcagtttg ccttgaaaaa tatcaaatat aactcttaga gaaatgtaca taaaagaatg 420
 cttcgtaatt ttggagtang aggttccttc ctcaattttg tattttttaa aagtacatgg 480
 taaaaaaaaa aattcacaac agtatataag gctgtaaaaa gaagaattct gcc 533

<210> 72

<211> 511
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G

<400> 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcgtgta	60
aaatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattggtgc	tgganatcgc	cgtggctatt	cctcattgtt	attacanagt	240
gaggttctct	gtgtgccccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncaggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

<210> 73
 <211> 499
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(499)
 <223> n = A,T,C or G

<400> 73

cagtgccagc	actggtgcc	gtaccagtac	caataacagt	gccagtgcca	gtgccagcac	60
cagtggtggc	ttcagtgctg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttggg	ggagctgggt	ccagcaccag	tggcagctct	ggcgctgtg	gtttctccta	180
caagtgagat	tttagatatt	gttaatcctg	ccagtccttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aatctatttg	ccatttctga	aaaaaaaaaa	aaaaaaagg	cggccgctcg	360
antctagagg	gcccgtttaa	acccgctgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgcccctcc	cccgntgcct	tccttgacct	tggaaagtgc	caactcccact	480
gtccttttct	aantaaaa					499

<210> 74
 <211> 537
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(537)
 <223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaattt	ggattcagcc	gcgaagagat	60
ttatcagctt	aactcagata	aatcattga	aagtaataag	gtaaaagcta	gtctctaact	120

```

tccaggccca cggctcaagt gaatttgaat actgcattta cagtgtagag taacacataa 180
cattgtatgc atggaaacat ggaggaacag tattacagtg tcctaccact ctaatcaaga 240
aaagaattac agactctgat tctacagtga tgattgaatt ctaaaaatgg taatcattag 300
ggcttttgat ttataanact ttgggtactt atactaaatt atggtagtta tactgccttc 360
cagtttgctt gatataattg ttgatattaa gattcttgac ttatattttg aatgggttct 420
actgaaaaan gaatgatata ttcttgaaga catcgatata catttattta cactcttgat 480
tctacaatgt agaaaatgaa ggaaatgccc caaattgtat ggtgataaaa gtccccgt 537

```

```

<210> 75
<211> 467
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

```

```

<400> 75
caaanacaat tgttcaaaag atgcaaatga tacactactg ctgcagctca caaacacctc 60
tgcattattac acgtacctcc tcctgctcct caagtagtgt ggtctatttt gccatcatca 120
cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg 180
tggcacaagg aggccatctt ttctcctcgt gttattgtcc ctagaagcgt cttctgagga 240
tctagttggg ctttctttct gggtttgggc catttcantt ctcattgtgtg tactattcta 300
tcattattgt ataacggttt tcaaaccngt gggcacncag agaacctcac tctgtaataa 360
caatgaggaa tagccacggt gatctccagc accaaatctc tccatgttnt tccagagctc 420
ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn 467

```

```

<210> 76
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

```

```

<400> 76
aagctgacag cattcgggcc gagatgtctc gctccgtggc cttagctgtg ctgcgctac 60
tctctctttc tggcctggag gctatccagc gtactccaaa gattcaggtt tactcacgtc 120
atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg ttctatccat 180
ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag 240
acttgtcttt cagcaaggac tggctcttct atctcttgta ctacactgaa ttcaccccca 300
ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng 360
ttnagtggga tcganacatg taagcagcan catgggaggt 400

```

```

<210> 77
<211> 248
<212> DNA
<213> Homo sapien

```

```

<400> 77
ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcaoct 60

```

```
<210> 78
<211> 201
<212> DNA
<213> Homo sapien
```

```
<210> 79
<211> 552
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(552)
<223> n = A,T,C or G
```

```
<210> 80
<211> 476
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G
```

<400>	80						
acagggattt	gagatgctaa	ggccccagag	atcgtttgat	ccaacctctt	tattttcaga		60
ggggaaaatg	gggcctagaa	gttacagagc	atctagctgg	tgcgtctggca	ccccctggct		120
cacacagact	ccccgagtag	tggggactaca	ggcacacagt	cactgaagca	ggccctgttt		180
gcaattcacg	ttgccacctc	caacttaaac	attcttcata	tgtgatgtcc	ttagtcacta		240
aggttaaact	ttcccaccca	gaaaaggcaa	cttagataaa	atcttagagt	actttcatac		300

```

tcttctaagt cctcttccag cctcactttg agtcctcctt gggggttgat aggaantntc 360
tcttggtttt ctcaataaaa tctctatcca tctcatgttt aatttggtag gcntaaaaat 420
gctgaaaaaa ttaaaatggt ctggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa 476

```

```

<210> 81
<211> 232
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 81
tttttttttg tatgcntcn ctgtgnggtt attgttgctg ccaccctgga ggagcccagt 60
ttcttctgta tctttctttt ctgggggata ttcttggtc tgccctcca ttcccagcct 120
ctcatcccca tcttgcaact ttgctagggt tggaggcgt ttcttggtag cccctcagag 180
actcagtcag cggaataag tcttaggggt ggggggtgtg gcaagccggc ct 232

```

```

<210> 82
<211> 383
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 82
aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
agtaccagta ccaataacat gccagtgcc gtgccagcac cagtgggtggc ttcagtgtg 120
gtgccagcct gaccgccact ctacattttg ggctcttcgc tggccttggg ggagctgggt 180
ccagcaccag tggcagctct ggtgcctgtg gtttctccta caagtgagat tttagatatt 240
gttaatcctg ccagtctttc tcttcaagcc aggttgcatc ctcaaaaacc tactcaacac 300
agcactctng gcagccacta tcaatcaatt gaagttgaca ctctgcatta aatctatttg 360
ccatttcaaa aaaaaaaaaa aaa 383

```

```

<210> 83
<211> 494
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 83
accgaattgg gaccgctggc ttataagcga tcatgtcctc cagtattacc tcaacgagca 60
gggagatcga gtctatacgc tgaagaaatt tgacccgatg ggacaacaga cctgctcagc 120
ccatcctgct cggttctccc cagatgacaa atactctcga caccgaatca ccatcaagaa 180
acgcttcaag gtgctcatga ccagcaacc gcgccctgtc ctctgagggg ccttaaactg 240

```

```
<210> 84
<211> 380
<212> DNA
<213> Homo sapien
```

<400>	84						
tatgcc	tatggcgtgg	ccacgggangg	gtccttgagg	cacggggacag	tgaattccca		60
cctgc	gccgcgtctt	ctaccgtccc	tacctgcaga	tcttcggggca	gattccccag		120
catgg	acgtggccct	catggagcac	agcaactgct	cgtcggagcc	cggtttctgg		180
ccctc	ctggggccca	ggcgggcacc	tgcgtctccc	agtatgccaa	ctggctggtg		240
gctcc	tcgtcatctt	cctgctcgtg	gccaacatcc	tgctggtcac	ttgctcattg		300
ttcag	ttacacattc	ggcaaagtac	agggcaacag	cnatctctac	tggaaggcc		360
tnccg	cctcatccgg						380

```
<220>  
<221> misc_feature  
<222> (1)...(481)  
<223> n = A,T,C or G
```

```
<210> 86
<211> 472
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(472)
```

<223> n = A,T,C or G

<400> 86

aacatcttcc	tgtataatgc	tgtgtaatat	cgatccgatn	ttgtctgctg	agaattcatt	60
acttgaaaa	gcaacttnaa	gcctggacac	tggtattaaa	attcacaata	tgcaacactt	120
taaacagtgt	gtcaatctgc	tcccttactt	tgtcatcacc	agtctgggaa	taagggtatg	180
ccctattcac	acctgttaaa	agggcgctaa	gcatttttga	ttcaacatct	ttttttttga	240
cacaagtccg	aaaaaagcaa	aagtaaacag	ttnttaattt	gttagccaat	tcaactttctt	300
catgggacag	agccatttga	tttaaaaagc	aaattgcata	atattgagct	ttggggagctg	360
atatntgagc	ggaagantag	cctttctact	tcaccagaca	caactccttt	catattggga	420
tgtnnacnaa	agttatgtct	cttacagatg	ggatgctttt	gtggcaattc	tg	472

<210> 87

<211> 413

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(413)

<223> n = A,T,C or G

<400> 87

agaaaccagt	atctctnaaa	acaacctctc	ataccttgctg	gacctaat	ttgtgtgcgtg	60
tgtgtgtgctg	cgcatattat	atagacaggc	acatcttttt	tacttttga	aaagcttatg	120
cctcttttgt	atctatatct	gtgaaagttt	taatgatctg	ccataatgtc	ttggggacct	180
ttgtcttctg	tgtaaagtgt	actagagaaa	acacctatnt	tatgagtcaa	tctagttngt	240
tttattcgac	atgaaggaaa	tttccagatn	acaacactna	caaactctcc	cttgactagg	300
ggggacaaaag	aaaagcnaaa	ctgaacatna	gaaacaattn	cctgggtgaga	aattncataa	360
acagaaattg	ggtngtatat	tgaananng	catcattnaa	acgttttttt	ttt	413

<210> 88

<211> 448

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(448)

<223> n = A,T,C or G

<400> 88

cgcagcgggt	cctctctatc	tagctccagc	ctctcgctg	ccccactccc	cgcgtcccgc	60
gtcctagccn	accatggccg	ggccccctgcg	cgccccgctg	ctcctgctgg	ccatccctggc	120
cgtggccctg	gccgtgagcc	ccgcggcccg	ctccagctcc	ggcaagccgc	cgcgcctggg	180
gggaggccca	tggaacccgc	gtggaagaag	aagggtgtgcg	gcgtgcaactg	gactttgccc	240
tcggcnanta	caacaaaccc	gcaacnactt	ttaccnagcn	cgcgtgcag	gttgtgccgc	300
cccaancaaa	ttgttactng	gggtaantaa	ttcttggaag	ttgaacctgg	gccaaacnng	360
tttaccagaa	ccnagccaat	tngaacaatt	nccccccat	aacagcccct	tttaaaaagg	420
gaancantcc	tgntcttttc	caaatttt				448

<210> 89

<211> 463

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(463)

<223> n = A,T,C or G

<400> 89

gaattttgtg	cactggccac	tgtgatggaa	ccattgggcc	aggatgcttt	gagtttatca	60
gtagtgattc	tgccaaagtt	ggtgttgtaa	catgagtatg	taaaatgtca	aaaaattagc	120
agaggctctag	gtctgcatat	cagcagacag	tttgtccgtg	tattttgtag	ccttgaagtt	180
ctcagtgaca	agttntttct	gatgcgaagt	tctnattcca	gtgttttagt	cctttgcatc	240
tttnatgttn	agacttgccct	ctntnaaatt	gcttttgtnt	tctgcaggta	ctatctgtgg	300
tttaacaaaa	tagaannact	tctctgcttn	gaanatttga	atatcttaca	tctnaaaatn	360
aattctctcc	ccatannaaa	acccangccc	ttggganaat	ttgaaaaang	gntccttcnn	420
aattcnnana	anttcagntn	tcatacaaca	naacngganc	ccc		463

<210> 90

<211> 400

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(400)

<223> n = A,T,C or G

<400> 90

agggattgaa	ggtctnttnt	actgtcggac	tgttcancca	ccaactctac	aagttgctgt	60
cttcactca	ctgtctgtaa	gcntnttaac	ccagactgta	tcttcataaa	tagaacaat	120
tcttcaccag	tcacatcttc	taggaccttt	ttggattcag	ttagtataag	ctcttcact	180
tcctttgtta	agacttcac	tggtaaaagtc	ttaagttttg	tagaaaaggaa	tttaattgct	240
cgttctctaa	caatgtcctc	tccttgaagt	atttggtgga	acaacccacc	tnaagtcctt	300
ttgtgcatcc	attttaaata	tacttaatat	ggcattggtn	cactagggtta	aattctgcaa	360
gagtcacatg	tctgcaaaaag	ttgcgttagt	atatctgcca			400

<210> 91

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(480)

<223> n = A,T,C or G

<400> 91

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggtctacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcctcttt	gactaccgtg	tgccagtgtc	ggtgattctc	acacacotcc	nncgctctt	180
tgtggaaaaa	ctggcacttg	nctggaacta	gcaagacatc	acttacaat	tcacccacga	240
gacacttgaa	aggtgtaaca	aagcgactct	tgcatgtgct	tttgtccctc	cggcaccagt	300
tgtcaatact	aacccgctgg	tttgccctca	tcacatttgt	gatctgtagc	tctggatata	360
tctoctgaca	gtactgaaga	acttcttctt	ttgtttcaaa	agcaactctt	ggtgcctggt	420

ngatcagggtt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa 480

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

<400> 92
atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60
ggtcccgctg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120
cccacgcagg cagcagcggg gccgggtcaat gaactccact cgtggcttgg ggttgacggg 180
taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgcgggacc 240
tgcagcgaaa ctcttcgatg gtcattgagcg ggaagogaat gangcccagg gccttgccca 300
gaaccttccg cctgtttctct ggcgtcacct gcagctgctg ccgctnacac tgcgcctcgg 360
accagcggac aaacggcgtt gaacagccgc acctcacgga tgcccantgt gtcgcgctcc 420
aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcgggt aatggcg 477

<210> 93
<211> 377
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(377)
<223> n = A,T,C or G

<400> 93
gaacggctgg accttgccctc gcattgtgct gctggcagga ataccttggc aagcagctcc 60
agtccgagca gccccagacc gctgcgcgcc gaagctaagc ctgcctctgg ccttcccctc 120
cgctcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtg 180
tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaata tccaacaaa 240
caacaacaaa ataacatgtt tgctgtttna gttgtataaa agtangtgat tctgtatnta 300
aagaaaatat tactgttaca tatactgctt gcaanttctg tatttattgg tncctctggaa 360
ataaatatat tattaata 377

<210> 94
<211> 495
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(495)
<223> n = A,T,C or G

<400> 94
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cgagctgang cagatttccc acagtgaccc cagagccctg ggctatagtc tctgaccct 120


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ccaaggaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg 180
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acgaggaana ggccctgant cctgggatca nacacccctt cacgtgtatc cccacacaaa 300
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acacccaccc agancancca cccgccatgg ggaatgtnct caaggaatcg cngggcaacg 420
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aaaaaaaaana aaaaa 495

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<210> 95
<211> 472
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

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<400> 95
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ttggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata 420
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```

```

<210> 96
<211> 476
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

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<400> 96
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gcaggctact ctccagaaaa acngacaggg caggcttgca tgaaaaagtn acatctgcgt 420
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```

```

<210> 97
<211> 479
<212> DNA
<213> Homo sapien

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```

<220>

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<221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

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 caatcgcaaa tcaaaactca caagtgtca tctgtttag atttagtga ataagactta 180
 gattgtgctc ctccgatat gattgtttct canatcttg gcaatnttc ttagtcaa 240
 caggctacta gaattctgtt attggatatn tgagagcatg aaatttttaa naatacactt 300
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 ntnnttttta natcaaagta ttttgtgttt ggaantgttn aaatgaaatc tgaatgtggg 420
 ttcnacttta ttttttcccn gacnactant tnccttttta gggncattc tganccatc 479

<210> 98
 <211> 461
 <212> DNA
 <213> Homo sapien

<400> 98
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 tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga 180
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<210> 99
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 99
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 cggtgagaaa agccttctct agcgatctga gaggcgtgcc ttgggggtac c 171

<210> 100
 <211> 269
 <212> DNA
 <213> Homo sapien

<400> 100
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 aaggtgagc tgacgcgcga gaggtcgtgt cagctccac gaccttgac cgcgcgggga 180
 cagccggaac agagcccggt gaagcgggag gcctcgggga gccctcggg aaggcgggcc 240
 cgagagatac gcaggtgcag gtggcgcgc 269

<210> 101
 <211> 405
 <212> DNA

<213> Homo sapien

<400> 101

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ttgattgggt	tgtctttatg	ggggcggggt	ggggtagggg	aaacgaagca	aataacatgg	180
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tgaccgtcat	tttcttgaca	tcaatgttat	tagaagtcag	gatatctttt	agagagtcca	300
ctgttctgga	gggagattag	ggtttctttg	caaatccaac	aaaatccact	gaaaaagttg	360
gatgatcagt	acgaataccg	aggcatatto	tcatatcggt	ggcca		405

<210> 102

<211> 470

<212> DNA

<213> Homo sapien

<400> 102

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tcaaaatcta	aattattcaa	attagccaaa	tccttaccaa	ataataccca	aaaatcaaaa	180
atatacttct	ttcagcaaac	ttgttacata	aattaaaaaa	atatatacgg	ctggtgtttt	240
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ccgcaaaggt	taaagggaac	aacaaattct	tttacaacac	cattataaaa	atcatatctc	360
aaatcttagg	ggaatatata	cttcacacgg	gatcttaact	tttactcact	ttgtttattt	420
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<210> 103

<211> 581

<212> DNA

<213> Homo sapien

<400> 103

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gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggctt	ttttcctaaa	360
agggaaaaca	ggaagagaaa	tggcacacaa	aacaaacatt	ttatattcat	atttctacct	420
acgttaataa	aatagcattt	tgtgaagcca	gctcaaaaaga	aggcttagat	ccttttatgt	480
ccatttttagt	cactaaacga	tatcaaagtg	ccagaatgca	aaagggtttg	gaacatttat	540
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<210> 104

<211> 578

<212> DNA

<213> Homo sapien

<400> 104

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ctcttatgct	atatcatatt	ttaagttaaa	ctaagtgc	actggcttat	cttctcctga	180
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caaaactgct	caaattgttt	gttaagttat	ccattataat	tagttggcag	gagctaatac	420
aaatcacatt	tacgacagca	ataataaaac	tgaagtacca	gttaaatatc	caaaataatt	480
aaaggaacat	ttttagcctg	ggtataatta	gctaattcac	tttacaagca	tttattagaa	540
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<210> 105

<211> 538

<212> DNA

<213> Homo sapien

<400> 105

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gtcttgaaca	ccaatattaa	tttgaggaaa	atacaccaaa	atacattaag	taaattattt	180
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aaatccacta	ttagcaataa	aattactatg	gacttcttgc	tttaattttg	tgatgaatat	300
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ggcgagaaat	gaggaagaaa	agaaaaggat	tacgcatact	gttctttcta	tggaaggatt	480
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<210> 106

<211> 473

<212> DNA

<213> Homo sapien

<400> 106

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gcaaacgcta	attctcttct	ccatcccat	gtgatattgt	gtatatgtgt	gagttggtag	300
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<210> 107

<211> 1621

<212> DNA

<213> Homo sapien

<400> 107

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<210> 108
<211> 382
<212> PRT
<213> Homo sapien
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Gly	Lys 50	Arg	Ser	Leu	Val	Leu 55	Asp	Leu	Lys	Gln	Pro 60	Arg	Gly	Ala	Ala	
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Arg	Glu	Asn 100	Pro	Arg	Leu	Ile	Tyr 105	Ala	Arg	Leu	Ser	Gly 110	Phe	Gly	Gln	
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<210> 109
<211> 1524
<212> DNA
<213> Homo sapien
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$$\begin{array}{ll} \langle 210 \rangle & 110 \\ \langle 211 \rangle & 3410 \end{array}$$

$\langle 400 \rangle$ 110

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<212> DNA
<213> Homo sapien

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tgaagatctt cgggccactg tcgtccagtg ccatgcagtt tgtcaacgtg ggctacttcc 300
tcacgcagc cggcggttggt gtctttgctc ttgggttctt gggctgctat ggtgctaaga 360
ctgagagcaa gtgtgccctc gtgacgttct tcttcactct cctcctcctc ttcattgctg 420
aggttgcagc tgctgtggtc gccttggtgt acaccacaat ggctgagcac ttcctgacgt 480
tgctggtagt gcctgccatc aagaaagatt atgggtccca ggaagacttc actcaagtgt 540
ggaacaccac catgaaaggg ctcaagtgcg gtggcttcac caactatacg gattttgagg 600
actcacccta cttcaaagag aacagtgcct ttccccatt ctgttgcaat gacaacgtca 660
ccaacacagc caatgaaacc tgcaccaagc aaaaggctca cgacccaaaa gtagagggtt 720
gcttcaatca gcttttgtat gacatccgaa ctaatgcagt caccgtgggt ggtgtggcag 780
ctggaattgg gggcctcgag ctggctgcca tgattgtgtc catgtatctg tactgcaatc 840
tacaataagt ccacttctgc ctctgccact actgctgcca catgggaact gtgaagaggc 900
accctggcaa gcagcagtg ttggggggagg ggacaggatc taacaatgtc acttgggcca 960
gaatggacct gccctttctg ctccagactt ggggctagat agggaccact ccttttagcg 1020
atgcctgact ttctttccat tgggtgggtg ggggtggggg ggcattccag agcctctaag 1080
gtagccagtt ctgttgccca ttccccagct ctattaaacc cttgatatgc cccctaggcc 1140
tagtgggtgat cccagtgtc tactggggga tgagagaaaag gcattttata gcctgggcat 1200
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tgttacaatg ttaaaaaaaaa aaaaaaaaaa

```

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<210> 112
<211> 315
<212> PRT
<213> Homo sapien

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```

<400> 112
Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln
1 5 10 15
Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe
20 25 30
Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala
35 40 45
Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu
50 55 60
Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro
65 70 75 80
Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser

```


85 90 95
 Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys
 100 105 110
 Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe
 115 120 125
 Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe
 130 135 140
 Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu Tyr Trp Lys
 145 150 155 160
 Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg Pro Ala Leu
 165 170 175
 Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu Leu Arg Gln
 180 185 190
 Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro Ala Leu Glu
 195 200 205
 His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys Leu Leu Thr
 210 215 220
 Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg Ala Arg Asp
 225 230 235 240
 Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val
 245 250 255
 Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg
 260 265 270
 Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg Val Leu Gly
 275 280 285
 Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro Pro Gly Gly
 290 295 300
 Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
 305 310 315

<210> 113

<211> 553

<212> PRT

<213> Homo sapien

<400> 113

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
 1 5 10 15
 Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu
 20 25 30
 Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
 35 40 45
 Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly
 50 55 60
 Leu Val Cys Val Pro Leu Leu Gly Ser Ala Ser Asp His Trp Arg Gly
 65 70 75 80
 Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile
 85 90 95
 Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu
 100 105 110
 Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly
 115 120 125
 Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu
 130 135 140

```

Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala
145          150          155          160
Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr
          165          170          175
Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu
          180          185          190
Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu
          195          200          205
Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly
210          215          220
Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His
225          230          235          240
Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu
          245          250          255
Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg
          260          265          270
Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe
          275          280          285
Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val
290          295          300
Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
305          310          315          320
Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu
          325          330          335
Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg
          340          345          350
Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala
355          360          365
Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
370          375          380
Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala
385          390          395          400
Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
          405          410          415
Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu
          420          425          430
Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala
          435          440          445
Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser
          450          455          460
Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala
465          470          475          480
Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
          485          490          495
Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser
          500          505          510
Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala
          515          520          525
Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp
530          535          540
Lys Ser Asp Leu Ala Lys Tyr Ser Ala
545          550

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<211> 241
 <212> PRT
 <213> Homo sapien

<400> 114

Met	Gln	Cys	Phe	Ser	Phe	Ile	Lys	Thr	Met	Met	Ile	Leu	Phe	Asn	Leu
1				5					10					15	
Leu	Ile	Phe	Leu	Cys	Gly	Ala	Ala	Leu	Leu	Ala	Val	Gly	Ile	Trp	Val
		20						25					30		
Ser	Ile	Asp	Gly	Ala	Ser	Phe	Leu	Lys	Ile	Phe	Gly	Pro	Leu	Ser	Ser
		35					40					45			
Ser	Ala	Met	Gln	Phe	Val	Asn	Val	Gly	Tyr	Phe	Leu	Ile	Ala	Ala	Gly
	50					55					60				
Val	Val	Val	Phe	Ala	Leu	Gly	Phe	Leu	Gly	Cys	Tyr	Gly	Ala	Lys	Thr
65					70					75					80
Glu	Ser	Lys	Cys	Ala	Leu	Val	Thr	Phe	Phe	Phe	Ile	Leu	Leu	Leu	Ile
				85					90					95	
Phe	Ile	Ala	Glu	Val	Ala	Ala	Ala	Val	Val	Ala	Leu	Val	Tyr	Thr	Thr
			100					105					110		
Met	Ala	Glu	His	Phe	Leu	Thr	Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys
	115						120					125			
Asp	Tyr	Gly	Ser	Gln	Glu	Asp	Phe	Thr	Gln	Val	Trp	Asn	Thr	Thr	Met
	130					135					140				
Lys	Gly	Leu	Lys	Cys	Cys	Gly	Phe	Thr	Asn	Tyr	Thr	Asp	Phe	Glu	Asp
145				150						155					160
Ser	Pro	Tyr	Phe	Lys	Glu	Asn	Ser	Ala	Phe	Pro	Pro	Phe	Cys	Cys	Asn
				165					170					175	
Asp	Asn	Val	Thr	Asn	Thr	Ala	Asn	Glu	Thr	Cys	Thr	Lys	Gln	Lys	Ala
		180						185					190		
His	Asp	Gln	Lys	Val	Glu	Gly	Cys	Phe	Asn	Gln	Leu	Leu	Tyr	Asp	Ile
	195						200					205			
Arg	Thr	Asn	Ala	Val	Thr	Val	Gly	Gly	Val	Ala	Ala	Gly	Ile	Gly	Gly
	210					215					220				
Leu	Glu	Leu	Ala	Ala	Met	Ile	Val	Ser	Met	Tyr	Leu	Tyr	Cys	Asn	Leu
225					230					235					240
Gln															

<210> 115
 <211> 366
 <212> DNA
 <213> Homo sapien

<400> 115

gctctttctc	tccctctctc	tgaatttaat	tctttcaact	tgcaatttgc	aaggattaca	60
catttcaactg	tgatgtatat	tgtgttgcaa	aaaaaaaaaa	gtgtctttgt	ttaaaattac	120
ttggtttgtg	aatccatctt	gctttttccc	cattggaact	agtcattaac	ccatctctga	180
actggtagaa	aaacatctga	agagctagtc	tatcagcatc	tgacaggtga	attggatggt	240
tctcagaacc	atttcaccca	gacagcctgt	ttctatcctg	tttaataaat	tagtttgggt	300
tctctacatg	cataacaaac	cctgctccaa	tctgtcacat	aaaagtctgt	gacttgaagt	360
ttagtc						366

<210> 116
 <211> 282

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

<400> 116
acaaagatga accatttcct atattatagc aaaattaaaa tctaccgta ttctaattatt 60
gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa 120
agactttact attttcataat tttaagacac atgattttatc ctatttttagt aacctgggtc 180
atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt 240
tcaatctnga actatctana tcacagacat ttctatttcct tt 282

<210> 117
<211> 305
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(305)
<223> n = A,T,C or G

<400> 117
acacatgtcg cttcactgcc ttcttagatg cttctgggtca acatanagga acagggacca 60
tatttatcct ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa 120
aataaggcaa aatatatgaa acaacaggtc tcgagatatt ggaaatcagt caatgaagga 180
tactgatccc tgatcactgt cctaattgcag gatgtgggaa acagatgagg tcacctctgt 240
gactgcccc gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat 300
tggggt 305

<210> 118
<211> 71
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(71)
<223> n = A,T,C or G

<400> 118
accaaggtgt ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa 60
aantcctggg t 71

<210> 119
<211> 212
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

<220>
 <221> misc_feature
 <222> (1)...(76)
 <223> n = A,T,C or G

<400> 123
 tgtagcgtga agacnacaga atgggtgtgtg ctgtgctatc caggaacaca tttattatca 60
 ttatcaanta ttgtgt 76

<210> 124
 <211> 131
 <212> DNA
 <213> Homo sapien

<400> 124
 acctttcccc aaggccaatg tctgtgtgta taactggccg gctgcaggac agctgcaatt 60
 caatgtgctg ggatcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120
 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
 accttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60
 cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgctcaga tgctgaagaa 120
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180
 ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240
 ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300
 catggtgggg gtcttgcac tgtaagaatg gaattgattt tgcttttgca agaattctcag 360
 caggaaacat cagaaccact attttctagc cctctgtcag agcaaacctc agtgcctctc 420
 ctctttgctt gt 432

<210> 126
 <211> 112
 <212> DNA
 <213> Homo sapien

<400> 126
 acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60
 agtaagaatg atatttcccc ccagggatca ccaaatttt ataaaaattt gt 112

<210> 127
 <211> 54
 <212> DNA
 <213> Homo sapien

<400> 127
 accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128
 <211> 323
 <212> DNA

<213> Homo sapien

<400> 128

acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc	60
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca	120
ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc	180
caaagcatt tggacagttt cttgtttgtg tttagaatgg ttttcctttt tcttagcctt	240
ttcctgcaaa aggtcactc agtccttgc ttgctcagtg gactgggctc cccagggcct	300
aggtgcctt cttttccatg tcc	323

<210> 129

<211> 192

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(192)

<223> n = A,T,C or G

<400> 129

acatacatgt gtgtatatatt ttaaatatca cttttgtatc actctgactt tttagcatac	60
tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc	120
tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg	180
gataaacaaa gt	192

<210> 130

<211> 362

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(362)

<223> n = A,T,C or G

<400> 130

ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca	60
tataatgacg caacaaaaag gtgctgttta gtcctatggg tcagtttatg cccctgacaa	120
gtttccattg tgttttgccg atcttctggc taatcgtggg atcctccatg ttattagtaa	180
ttctgtattc cattttgtta acgcctggta gatgtaacct gctangaggc taactttata	240
cttatttaaa agctcttatt ttgtgggtcat taaaatggca atttatgtgc agcactttat	300
tgcagcagga agcacgtgtg ggttgggtgt aaagctcttt gctaattctta aaaagtaatg	360
gg	362

<210> 131

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(332)

<223> n = A,T,C or G

<400> 131

```

ctttttgaaa gatcgtgtcc actcctgtgg acatcttgtt ttaatggagt ttcccatgca      60
gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga      120
gttctcccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc      180
ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttggtttatt atccaactaa      240
cttccatctg ttatcactgg agaaagccca gactcccan gacnggtacg gattgtgggc      300
atanaaggat tgggtgaagc tggcgttgtg gt                                     332

```

<210> 132

<211> 322

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(322)

<223> n = A,T,C or G

<400> 132

```

acttttgcca ttttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc      60
agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat      120
ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggaccttg tatctcgggt      180
tttagcaagt taaaatgaan atgacaggaa aggcttattt atcaacaaag agaagagttg      240
ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct agggaagcct      300
gtaacaatct acaattggtc ca                                     322

```

<210> 133

<211> 278

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(278)

<223> n = A,T,C or G

<400> 133

```

acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt      60
cttggtttttc ttcccatctg gctcctgggt tgacaatttg tggaaacaac tctattgcta      120
ctatttataaa aaaatcacaa atctttccct ttaagctatg ttnaattcaa actattcctg      180
ctattcctgt tttgtcaaag aaattatatt tttcaaaaata tgtntatttg tttgatgggt      240
cccacgaaac actaataaaa accacagaga ccagcctg                                     278

```

<210> 134

<211> 121

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(121)

<223> n = A,T,C or G

<400> 134
 gtttanaaaa cttgttttagc tccatagagg aaagaatggt aaactttgta ttttaaaaca 60
 tgattctctg aggttaaact tggttttcaa atgttatatt tacttgtatt ttgcttttgg 120
 t 121

<210> 135
 <211> 350
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(350)
 <223> n = A,T,C or G

<400> 135
 acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc 60
 atancaagtg gtgactggtt aagcgtgcga caaaggtcag ctggcacatt acttgtgtgc 120
 aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tggtaactcca 180
 gggtgcccc caactcctgc agccgctcct ctgtgccagn ccctgnaagg aactttcgtc 240
 ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttgctgag 300
 ttcccaagga tgcaaagcct ggtgctcaac tcctggggcg tcaactcagt 350

<210> 136
 <211> 399
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 136
 tgtaccgtga agacgacaga agttgcatgg cagggacagg gcagggccga ggccagggtt 60
 gctgtgattg tatccgaata ntctcgtga gaaaagataa tgagatgacg tgagcagcct 120
 gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttggctctga 180
 cctggcggcc agccagccag ccacaggtgg gcttcttctt tttgtggtga caacnccaag 240
 aaaactgcag aggcccaggg tcaggtgtna gtgggtangt gaccataaaa caccagggtgc 300
 tcccaggaac ccgggcaaag gccatcccca cctacagcca gcatgcccac tggcgtgatg 360
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

<210> 137
 <211> 165
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A,T,C or G

<400> 137
 actggtgtgg tngggggtga tgctgggtgt anaagttgan gtgacttcan gatggtgtgt 60

```

ggaggaagtg tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga 120
ttggctggtc ccactggtgg tcaactgtcat ttggtgggggt cctgt 165

```

```

<210> 138
<211> 338
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(338)
<223> n = A,T,C or G

```

```

<400> 138
actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc 60
ttaacttctc cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccaa 120
tgctgggcag tctcccatgc cttccacagt gaaagggtct gagaaaaatc acatccaatg 180
tcatgtgttt ccagccacac caaaagggtgc ttgggggtgga gggctggggg catananggt 240
cangcctcag gaagcctcaa gttccattca gctttgccac tgtacattcc ccatntttaa 300
aaaaactgat gccttttttt tttttttttg taaaattc 338

```

```

<210> 139
<211> 382
<212> DNA
<213> Homo sapien

```

```

<400> 139
gggaatcttg gtttttggca tctggtttgc ctatagccga ggccactttg acagaacaaa 60
gaaagggact tcgagtaaga aggtgattta cagccagcct agtgcccga gtgaaggaga 120
attcaaacag acctcgatcat tcttggtgtg agcctggtcg gctcaccgcc tatcatctgc 180
atttgcccta ctcaggtgct accggactct ggcccctgat gtctgtagtt tcacaggatg 240
ccttattttg cttctacacc ccacagggcc ccctaactct tcggatgtgt ttttaataat 300
gtcagctatg tgccccatcc tccttcatgc cctccctccc tttcctacca ctgctgagtg 360
gcctggaact tgtttaaagt gt 382

```

```

<210> 140
<211> 200
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(200)
<223> n = A,T,C or G

```

```

<400> 140
accaaaanctt ctttctgttg tgtnngattt tactataggg gtttngett n ttctaaanat 60
acttttcatt taacancttt tgtaagtgt caggctgcac tttgctccat anaattattg 120
ttttcacatt tcaacttgta tgtgtttgtc tcttanagca ttggtgaaat cacatatttt 180
atattcagca taaaggagaa 200

```

```

<210> 141
<211> 335
<212> DNA

```

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(335)

<223> n = A,T,C or G

<400> 141

actttat	tttt	caaaac	actc	atatgt	tgc	aaaaac	acat	agaaaa	aataa	agtttg	gtgg	60
gggtg	ctgac	taaact	tcaa	gtcac	agact	tttat	gtgac	agattg	gagc	agggtt	gtt	120
atgcat	gtag	agaac	ccaaa	ctaatt	tatt	aaacag	gata	gaaac	aggct	gtctgg	gtga	180
aatgg	tctg	agaac	catcc	aattc	acctg	tcagat	gctg	atanac	tagc	tcttc	agatg	240
ttttt	ctacc	agttc	agaga	tnggt	ttaatg	actant	tcca	atgggg	aaaa	agcaag	atgg	300
attcac	aaac	caagta	at	ttt	t	taaaca	aaaga	cactt				335

<210> 142

<211> 459

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(459)

<223> n = A,T,C or G

<400> 142

accaggt	ttaa	tattgc	caca	tatat	cc	ttt	ccaatt	gcgg	gctaa	acaga	cgtgt	atttta	60	
gggtt	gttta	aagaca	accc	agctta	aatat		caagaga	aat	tgtgac	cttt	catgg	agtat	120	
ctgat	ggaga	aaacac	t	gag			ttttg	acaaa	tcttatt	ttta	ttcag	atagc	180	
cacat	gg	tcc	aaca	ac	ctc	aaata	aataa	aaa	tcaa	at	atna	tcag	atg	240
ttcaa	acac	ctc	atag	cca	atg	atg	cccc	gct	tgc	ctata	at	ctct	ccg	300
tcaac	ac	ctc	ag	tgg	cc	acc	att	tca	gcac	ag	cttc	ctta	act	360
agct	acc	agt	ctg	ag	ca	cta	ttg	act	atnt	tttt	cang	ct	gaat	420
cagc	ang	gg	gag	ga	acc	agct	ca	ac	ct	tg	gc	gt	ant	459

<210> 143

<211> 140

<212> DNA

<213> Homo sapien

<400> 143

acatttc	ctt	ccacca	agtc	aggact	cc	ctg	gcttct	gtgg	gagtt	cttat	cacct	gaggg	60	
aatccaa	ac	agtct	ctc	ct	agaa	agga	at	agtg	tacca	accc	accca	tctcc	ctg	120
accat	ccgac	ttcc	ctgt	gt									140	

<210> 144

<211> 164

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(164)

<223> n = A,T,C or G

```

<400> 144
acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct      60
atctatacca ctctcccttc tgaaaaacaan aatcactanc caatcactta tacaaatttg      120
aggcaattaa tccatatttg ttttcaataa ggaaaaaaaag atgt                        164

```

```

<210> 145
<211> 303
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G

```

```

<400> 145
acgtagacca tccaactttg tatttgtaat ggcaaacatc cagnagcaat tcttaaacia      60
actggagggt atttataccc aattatccca ttcattaaca tgccctcttc ctcaggctat      120
gcaggacagc tatcataagt cggcccaggc atccagatac taccatttgt ataaacttca      180
gtaggggagt ccatccaagt gacaggtcta atcaaaggag gaaatggaac ataagcccag      240
tagtaaaatn ttgcttagct gaaacagcca caaaagactt accgccgtgg tgattaccat      300
caa                                              303

```

```

<210> 146
<211> 327
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(327)
<223> n = A,T,C or G

```

```

<400> 146
actgcagctc aattagaagt ggtctctgac tttcatcanc ttctccctgg gctccatgac      60
actggcctgg agtgactcat tgctctgggt ggttgagaga gtcctttgc caacaggcct      120
ccaagtcagg gctgggattt gtttcctttc cacattctag caacaatatg ctggccactt      180
cctgaacagg gagggtgagg ggagccagca tggaacaagc tgccactttc taaagtagcc      240
agacttgccc ctgggcctgt cacacctact gatgaccttc tgtgcctgca ggatggaatg      300
taggggtgag ctgtgtgact ctatggt                      327

```

```

<210> 147
<211> 173
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(173)
<223> n = A,T,C or G

```

```

<400> 147
acattgtttt tttgagataa agcattgana gagctctcct taacgtgaca caatggaagg      60

```

```

actggaacac ataccacat cttgttctg agggataatt ttctgataaa gtcttgctgt 120
atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gtt 173

```

```

<210> 148
<211> 477
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

```

```

<400> 148
acaaccactt tatctcatcg aatttttaac ccaaactcac tcaactgtgcc tttctatcct 60
atgggatata ttatttgatg ctccatttca tcacacatat atgaataata cactcatact 120
gccctactac ctgctgcaat aatcacattc ccttcctgtc ctgaccctga agccattggg 180
gtggtcctag tggccatcag tccangcctg caccttgagc ccttgagctc cattgctcac 240
nccanccac ctcaccgacc ccatectctt acacagctac ctcccttgetc tetaacccca 300
tagattatnt ccaaattcag tcaattaagt tactattaac actctaccog acatgtccag 360
caccactggg aagccttctc cagccaacac acacacacac acacncacac acacacatat 420
ccaggcacag gctacctcat cttcacaatc acccctttaa ttaccatgct atggtgg 477

```

```

<210> 149
<211> 207
<212> DNA
<213> Homo sapien

```

```

<400> 149
acagttgtat tataatatca agaaataaac ttgcaatgag agcatttaag agggaagaac 60
taacgtatatt tagagagcca aggaagggtt ctgtggggag tgggatgtaa ggtggggcct 120
gatgataaat aagagtcagc caggtaagtg ggtggtgtgg tatgggcaca gtgaagaaca 180
tttcaggcag agggaacagc agtgaaa 207

```

```

<210> 150
<211> 111
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(111)
<223> n = A,T,C or G

```

```

<400> 150
accttgattt cattgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg 60
cacttaaatg tggtcagtgt ttggacttgt taactantgg catctttggg t 111

```

```

<210> 151
<211> 196
<212> DNA
<213> Homo sapien

```

```

<400> 151

```

```

agcgcggcag gtcattattga acattccaga tacctatcat tactcgatgc tgttgataac      60
agcaagatgg ctttgaactc agggtcacca ccagctattg gacottacta tgaaaaccat      120
ggataccaac cggaaaaccc ctatcccgca cagcccactg tggccccac tgtctacgag      180
gtgcatccgg ctcagt                                         196

```

```

<210> 152
<211> 132
<212> DNA
<213> Homo sapien

```

```

<400> 152
acagcacttt cacatgtaag aaggagagaa ttcctaaatg taggagaaag ataacagAAC      60
cttccccctt tcattctagt gtggaaacct gatgctttat gttgacagga atagaaccag      120
gaggaggttt gt                                         132

```

```

<210> 153
<211> 285
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

```

```

<400> 153
acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag      60
cttctgtctt tatgtcctca tctgacaact ctttaccatt tttatcctcg ctgagcagga      120
gcacatcaat aaagtccaaa gtcttggact tggccttggc ttggaggaag tcatcaacac      180
cctggctagt gaggggtgcg cgccgctcct ggatgacggc atctgtgaag tcgtgcacca      240
gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt                                         285

```

```

<210> 154
<211> 333
<212> DNA
<213> Homo sapien

```

```

<400> 154
accacagtcc tgttgggcca gggcttcatg accctttctg tgaaaagcca tattatcacc      60
accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac      120
cctaagccgg ttacacagct aactcccact ggcoctgatt tgtgaaattg ctgctgcctg      180
attggcacag gattcgaaag tgttcagctc ccctcctcog tggaacgaga ctctgatttg      240
agtttcacaa attctcgggc cacctcgtea ttgctcctct gaaataaaat ccggagaatg      300
gtcaggcctg tctcatccat atggatcttc cgg                                         333

```

```

<210> 155
<211> 308
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A,T,C or G

```

<400> 155

actggaaata ataaaaccca catcacagtg ttgtgtcaaa gatcatcagg gcatggatgg	60
gaaagtgtt tgggaactgt aaagtgccta acacatgatc gatgattttt gttataatat	120
ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc	180
atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggct	240
gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcatgctg	300
gccctggg	308

<210> 156

<211> 295

<212> DNA

<213> Homo sapien

<400> 156

accttgctcg gtgcttggaa catattagga actcaaaata tgagatgata acagtgccta	60
ttattgatta ctgagagaac tgtagacat ttagttgaag attttctaca caggaactga	120
gaataggaga ttatgtttgg cctcatatt ctctcctatc ctcttgcct cattctatgt	180
ctaataatatt ctcaatcaaa taaggttagc ataatcagga aatcgaccaa ataccaatat	240
aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat	295

<210> 157

<211> 126

<212> DNA

<213> Homo sapien

<400> 157

acaagtttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct	60
gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc	120
cttagt	126

<210> 158

<211> 442

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(442)

<223> n = A,T,C or G

<400> 158

accactggg cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg	60
aanccagcag gctgccccta gtcagtcctt ccttccagag aaaaagagat ttgagaaagt	120
gcctgggtaa ttcaccatta atttctctcc ccaaactctc tgagtcttcc cttaatattt	180
ctggtgggtc tgaccaaagc aggtcatggg ttgttgagca ttgggatcc cagtgaagta	240
natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtggg	300
ccaaccctgt tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga	360
nacagacggg ctctttgcag agcgggact ctgagangga catgagggcc tctgcctctg	420
tggtcattct ctgatgtcct gt	442

<210> 159

<211> 498

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 159

acttccaggt	aacgttggtg	tttccgttga	gcctgaactg	atgggtgacg	ttgtaggttc	60
tccaacaaga	actgaggttg	cagagcgggt	aggggaagagt	gctgttccag	ttgcacctgg	120
gctgctgtgg	actggttggt	attcctcact	acggcccaag	gttgtggaac	tggcanaaag	180
gtgtgttggt	gganttgagc	tcgggcgggt	gtggtaggtt	gtgggtcttt	caacaggggc	240
tgctgtggtg	cggggangtg	aangtggttg	gtcacttgag	cttggccagc	tctggaaaagt	300
antanattct	tcctgaaggc	cagcgcttgt	ggagctggca	ngggtcantg	ttgtgtgtaa	360
cgaaccagtg	ctgctgtggg	tgggtgtana	tcctccacaa	agcctgaagt	tatggtgtcn	420
tcaggtaana	atgtgggttc	agtgtccctg	ggengctgtg	gaaggttgta	nattgtcacc	480
aaggaataa	gctgtggt					498

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 160

acctgcatcc	agcttccctg	ccaaactcac	aaggagacat	caacctctag	acagggaaac	60
agcttcagga	tacttccagg	agacagagcc	accagcagca	aaacaaatat	tcccatgect	120
ggagcatggc	atagaggaag	ctganaaatg	tggggtctga	ggaagccatt	tgagtctggc	180
cactagacat	ctcatcagcc	acttgtgtga	agagatgccc	catgacccca	gatgcctctc	240
ccacctttac	ctccatctca	cacacttgag	ctttccactc	tgtataattc	taacatcctg	300
gagaaaaatg	gcagtttgac	cgaacctgtt	cacaacggta	gaggctgatt	tctaacgaaa	360
cttgtagaat	gaagcctgga					380

<210> 161

<211> 114

<212> DNA

<213> Homo sapien

<400> 161

actccacatc	ccctctgagc	aggcggttgt	cgttcaaggt	gtatttggcc	ttgcctgtca	60
cactgtccac	tggtccctta	tccacttggt	gcttaatccc	tcgaaagagc	atgt	114

<210> 162

<211> 177

<212> DNA

<213> Homo sapien

<400> 162

actttctgaa	tcgaatcaaa	tgatacttag	tgtagtttta	atatcctcat	atatatcaaa	60
gttttactac	tctgataatt	ttgtaaacca	ggtaaccaga	acatccagtc	atacagcttt	120

tggtgatata taacttggca ataaccocagt ctggtgatac ataaaactac tcactgt 177

<210> 163
 <211> 137
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n = A,T,C or G

<400> 163
 catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtgac 60
 canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120
 catcagcggc atgatgt 137

<210> 164
 <211> 469
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(469)
 <223> n = A,T,C or G

<400> 164
 cttatcacaa tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
 tgcaatgcat catgctattt catacctaat gagggagttc caggagattc aaccaggaaa 120
 tgcattggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180
 gagacatgca cttgctacga aacagaaatt tcattgttgca cccttgtttc tacacctgtg 240
 ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300
 gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360
 tctagtaggc acagggtcc caggccaggc ctcatctctc tctggcctct aatagtcaat 420
 gattgtgtag ccatgcctat cagtataaag atntttgagc aaacacttt 469

<210> 165
 <211> 195
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(195)
 <223> n = A,T,C or G

<400> 165
 acagtttttt atanatatcg acattgcggg cacttggtgtt cagtttcata aagctgggtg 60
 atccgctgtc atccactatt ccttggttag agtaaaaatt attcttatag cccatgtccc 120
 tgcaggccgc ccgcccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180
 tcctctgaga tgagt 195

<210> 166

<211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 166
 acatcttagt agtgtggcac atcagggggc catcaggggc acagtcactc atagcctcgc 60
 cgaggtcgga gtccacacca ccggtgtagg tgtgctcaat cttgggcttg gcgccacac 120
 ttggagaagg gatatgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt 180
 ttgcagacc agcctgagca aggggcggat gttcagcttc agctcctcct tcgtcagggtg 240
 gatgccaaac tcgtctangg tccgtgggaa gctgggtgtcc acntcaccta caacctgggc 300
 gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt 360
 nggggccttt ttggtgaact ttc 383

<210> 167
 <211> 247
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(247)
 <223> n = A,T,C or G

<400> 167
 acagagccag accttggcca taaatgaanc agagattaag actaaacccc aagtcganat 60
 tggagcagaa actggagcaa gaagtgggcc tggggctgaa gtagagacca aggccactgc 120
 tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac 180
 tcaatctgan tccaaagtgg tggctggaac actgggtcatg acanaggcag tgactctgac 240
 tgangtc 247

<210> 168
 <211> 273
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> n = A,T,C or G

<400> 168
 acttctaagt tttctagaag tggaaggatt gtantcatcc tgaaaatggg tttacttcaa 60
 aatccctcan ccttggttctt cacnactgtc tatactgana gtgtcatgtt tocacaaagg 120
 gctgacacct gagcctgnat tttactcat ccoctgagaag ccctttccag taggggtgggc 180
 aattcccaac ttcccttgcca caagcttccc aggctttctc ccctggaaaa ctccagcttg 240
 agtcccagat acactcatgg gctgccctgg gca 273

<210> 169
 <211> 431

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcact	cgcagccctg	gcaggcgcca	60
ctgggtcatgg	aaaacgaatt	gttctgctcg	ggcgctctgg	tgcatecgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgaagt	cagagctcct	acaccatcgg	gctgggcttg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccacg	agtacaacag	acccttgcct	gctaacgacc	tcatgctcat	caagttggac	300
gaatccgtgt	ccgagctctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcggggaact	cttgcctcgt	ttctggctgg	ggctgctggg	cgaacggcag	aatgcctacc	420
gtgctgcaqt	gcgtgaacgt	gtcggtggtg	tctgaggaag	tctgcagtaa	qctctatgac	480

```
<210> 172
<211> 159
<212> PRT
<213> Homo sapien

<220>
<221> VARIANT
<222> (1)...(159)
<223> Xaa = Any Amino Acid
```

```
<210> 173
<211> 1265
<212> DNA
<213> Homo sapien

<220>
<221> misc_featur
<222> (1)...(1265
```

<223> n = A,T,C or G

<400> 173

```

ggcagcccg c actcgagcc ctggcaggcg gcactgggtca tggaaaacga attgttctgc      60
tcggggcgcc tgggtgcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc      120
tacaccatcg ggetgggcct gcacagtctt gagggcgacc aagagccagg gagccagatg      180
gtggaggcca gcctctccgt acggcaccca gagtacaaca gacccttgct cgctaacgac      240
ctcatgctca tcaagttgga cgaatccgtg tccgagtctg acaccatccg gagcatcagc      300
attgcttctgc agtgccctac cgcggggaac tcttgccctg tttctggctg gggctctgctg      360
gcgaacgggtg agctcacggg tgtgtgtctg cctctctcaa ggaggtcctc tgcccagtcg      420
cgggggctga cccagagctc tgcgtcccag gcagaatgcc taccgtgctg cagtgcgtga      480
acgtgtcggg ggtgtctgag gaggtctgca gtaagetcta tgaccgctg taccacccca      540
gcatgttctg cgcggcgga gggcaagacc agaaggactc ctgcaacggg gactctgggg      600
ggccccgat ctgcaacggg tacttgagg gccttgtgtc tttcgaaaa gccccgtgtg      660
gccaaagttg cgtgccagggt gtctacacca acctctgcaa attcactgag tggatagaga      720
aaaccgtcca ggccagttaa ctctggggac tgggaaccca tgaaattgac ccccaaatac      780
atctgcgga aggaattcag gaatatctgt tcccagcccc tctctcctca ggcccaggag      840
tccaggcccc cagccccctc tccctcaaac caagggtaca gatccccagc cctcctccc      900
tcagaccag gagtccagac ccccagccc ctctcctc agaccaggga gtccagcccc      960
tctcctca gaaccaggag tccagacccc ccagcccctc ctccctcaga cccaggggtt    1020
gaggccccca accctcctc cttcagagtc agagggtccaa gcccccaacc cctcgttccc    1080
cagacccaga ggtinnaggtc ccagcccctc tctcctcaga cccagnngtc caatgccacc    1140
tagattttcc ctgnacacag tgcccccttg tggngangttg acccaacctt accagttggg    1200
ttttcatttt tngtcccttt cccctagatc cagaaataaa gtttaagaga nngcaaaaaa    1260
aaaaa                                         1265

```

<210> 174

<211> 1459

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1459)

<223> n = A,T,C or G

<400> 174

```

ggtcagccgc aactgtttc cagaagtgag tgcagagctc ctacaccatc gggctggggc      60
tgcacagtct tgaggccgac caagagccag ggagccagat ggtggaggcc agcctctccg      120
tacggcaccc agagtacaac agacccttgc tcgctaacga cctcatgctc atcaagttgg      180
acgaatccgt gtccgagtct gacaccatcc ggagcatcag cattgcttcg cagtgcctta      240
ccgcggggaa ctcttgctc gtttctggct ggggtctgct ggcgaacggg gagctcacgg      300
gtgtgtgtct gccctcttca aggaggtcct ctgcccagtc gcgggggctg acccagagct      360
ctgcgtccca ggcagaatgc ctaccgtgct gcagtgcgtg aacgtgtcgg tgggtgtctga      420
ngaggctctg antaagctct atgaccgct gtaccacccc ancatgttct gcgccggcgg      480
agggcaagac cagaaggact cctgcaacgt gagagagggg aaaggggagg gcaggcgact      540
cagggaaggg tggagaaggg ggagacagag acacacaggg ccgcatggcg agatgcagag      600
atggagagac acacagggag acagtgacaa ctagagagag aaactgagag aaacagagaa      660
ataaacacag gaataaagag aagcaaagga agagagaaac agaaacagac atggggaggc      720
agaaacacac acacatagaa atgcagttga ccttccaaca gcatggggcc tgaggggcgg      780
gacctccacc caatagaaaa tctcttata acttttgact ccccaaaaac ctgactagaa      840
atagcctact gttgacgggg agccttacca ataacataaa tagtcgattt atgcatacgt      900
tttatgcatt catgatatac ctttggttga attttttgat atttctaagc tacacagttc      960
gtctgtgaat ttttttaaat tgttgcaact ctctaaaaat ttttctgatg tgtttattga    1020

```

```

aaaaatccaa gtataagtgg acttgtgcat tcaaaccagg gttgttcaag ggtcaactgt 1080
gtaccacagag ggaaacagtg acacagattc atagaggtga aacacgaaga gaaacaggaa 1140
aaatcaagac tctacaaaga ggctgggcag ggtgggtcat gcctgtaatc ccagcacttt 1200
gggaggcgag gcaggcagat cacttgaggt aaggagttca agaccagcct ggccaaaatg 1260
gtgaaatcct gtctgtacta aaaatacaaa agttagctgg atatggtggc aggcgcctgt 1320
aatcccagct acttggggagg ctgaggcagg agaattgctt gaatatggga ggcagagggt 1380
gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

```

<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

```

```

<400> 175
gcgcagccct ggcaggcggc actggtcatg gaaaacgaat tgttctgctc gggcgctctg 60
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcctc 240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatacagcat tgcttcgcag 300
tgccctaccg cggggaactc ttgctcgtg tctggctggg gtctgctggc gaacggcaga 360
atgcctaccg tgctgcactg cgtgaacgtg tccgtgggtg ctgaggangt ctgcagtaag 420
ctctatgacc cgctgtacca cccagcatg ttctgcgcgc gcggagggca agaccagaag 480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc caggtgtcta caccaacctc 600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gttactctg gggactggga 660
acccatgaaa ttgaccccc aatacatcct gcggaangaa ttcaggaata tctgttccca 720
gccccctctc cctcaggccc aggagtccag gccccagcc cctcctccct caaaccaagg 780
gtacagatcc ccagcccctc ctccctcaga cccaggagtc cagaccccc agccccctnt 840
ccntcagacc caggagtcca gccccctctc cntcagacgc aggagtccag accccccagc 900
ccntcntccg tcagaccagc ggggtgcagg ccccaacccc tcntccntca gagtcagagg 960
tccaagcccc caacccctcg ttcccagac ccagaggtnc aggtcccagc ccctcctccc 1020
tcagaccagc cgggtccaat ccacctagan tntccctgta cacagtgcc ccttggtggca 1080
ngttgacca accttaccag ttggtttttc attttttgtc cttttccct agatccagaa 1140
ataaagtnta agagaagcgc aaaaaaa 1167

```

```

<210> 176
<211> 205
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(205)
<223> Xaa = Any Amino Acid

```

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
  1               5               10               15

```

```
<210> 177
<211> 1119
<212> DNA
<213> Homo sapien
```

<210>	178
<211>	164
<212>	PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(164)

<223> Xaa = Any Amino Acid

<400> 178

Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp
1				5				10						15	
Val	Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu
			20					25					30		
Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val
		35					40					45			
Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu
	50					55					60				
Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu	Ser
65					70				75						80
Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	Gly
			85						90					95	
Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Asp	Ala	Val
			100					105					110		
Ile	Ala	Ile	Gln	Ser	Xaa	Thr	Val	Gly	Gly	Trp	Glu	Cys	Glu	Lys	Leu
		115					120					125			
Ser	Gln	Pro	Trp	Gln	Gly	Cys	Thr	Ile	Ser	Ala	Thr	Ser	Ser	Ala	Arg
	130					135					140				
Thr	Ser	Cys	Cys	Ile	Leu	Thr	Gly	Cys	Ser	Leu	Leu	Leu	Thr	Ala	Ser
145					150					155					160
Pro	Gly	Thr	Leu												

<210> 179

<211> 250

<212> DNA

<213> Homo sapien

<400> 179

ctggagtgcc	ttggtgtttc	aagcccctgc	aggaagcaga	atgcaccttc	tgaggcacct	60
ccagctgccc	ccggccgggg	gatgcgaggc	toggagcacc	cttgcccggc	tgtgattgct	120
gccaggcact	gttcattctca	gcttttctgt	ccctttgctc	ccggcaagcg	cttctgctga	180
aagttcatat	ctggagcctg	atgtcttaac	gaataaaggt	cccattgctcc	acccgaaaaa	240
aaaaaaaaaa						250

<210> 180

<211> 202

<212> DNA

<213> Homo sapien

<400> 180

actagtccag	tgtggtggaa	ttccattgtg	ttgggcccac	cacaatggct	acctttaaca	60
tcaccagac	ccgcccctg	ccgtgcccc	acgtgctgc	taacgacagt	atgatgctta	120
ctctgctact	cggaaactat	ttttatgtaa	ttaatgtatg	ctttcttggt	tataaatgcc	180
tgatttaaaa	aaaaaaaaaa	aa				202

<210> 181
 <211> 558
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(558)
 <223> n = A,T,C or G

<400> 181
 tccytttgkt naggttttkg agacamccck agacctwaan ctgtgtcaca gacttcyngg 60
 aatgttttagg cagtgcctag aatttcytcg taatgattct gttattactt tcctnattct 120
 ttattcctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa 180
 ggtagtgtga tagtataagt atctaagtg agatgaaagt gtgttatata tatccattca 240
 aaattatgca agtttagtaat tactcagggg taactaaatt actttaatat gctggtgaac 300
 ctactctgtt ccttggctag aaaaaattat aaacaggact ttgttagttt gggaagccaa 360
 attgataata ttctatgttc taaaagttgg gctatacata aattattaag aaatatggaw 420
 ttttattccc aggaatatgg kgttcatttt atgaatatta cscrggatag awgtwtgagt 480
 aaaaycagtt ttggtwaata ygtwaatatg tcmtaaataa acaakgcttt gacttatttc 540
 caaaaaaaaa aaaaaaaaa 558

<210> 182
 <211> 479
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

<400> 182
 acagggwttk grggatgcta agsccccrga rwtggtttga tccaaccctg gcttwttttc 60
 agaggggaaa atggggccta gaagttacag mscatytagy tgggtgcgmg gcacccctgg 120
 cstcacacag astcccgagt agctgggact acaggcacac agtcaactgaa gcaggccctg 180
 ttwgcaattc acgttgccac ctccaactta aacattcttc atatgtgatg tccttagtca 240
 ctaagggttaa actttcccac ccagaaaagg caacttagat aaaatcctag agtactttca 300
 tactmttcta agtcctcttc cagcctcact kkgagtcctm cytggggggt gataggaant 360
 ntctcttggc tttctcaata aartctctat ycatctcatg tttaatttgg tacgcatara 420
 awtgstgara aaattaaaaat gttctggtty mactttaaaa aaaaaaaaaa aaaaaaaaaa 479

<210> 183
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 183
 aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
 agtaccagta ccaataacag tgccagtgcc agtgccagca ccagtgggtg cttcagtgtc 120
 ggtgccagcc tgaccgccac tctcacattt gggctcttcg ctggccttgg tggagctggt 180
 gccagcacca gtggcagctc tgggtgcctgt ggtttctcct acaagtgaga ttttagatat 240
 tggtaatcct gccagtcttt ctcttcaagc cagggtgcat cctcagaaac ctactcaaca 300
 cagcaactcta ggcagccact atcaatcaat tgaagttgac actctgcatt aratctattt 360

gccattttcaa aaaaaaaaaa aaaa

384

<210> 184
 <211> 496
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(496)
 <223> n = A,T,C or G

<400> 184

accgaattgg	gaccgctggc	ttataagcga	tcatgttynt	ccrgtatcac	ctcaacgagc	60
aggagatcg	agtctatacg	ctgaagaaat	ttgacccgat	gggacaacag	acctgctcag	120
cccatcctgc	tgggttctcc	ccagatgaca	aatactctsg	acaccgaatc	accatcaaga	180
aacgcttcaa	ggtgctcatg	accagcaac	cgcgcctgt	cctctgaggg	tcccttaaac	240
tgatgtcttt	tctgccacct	gttaccctc	ggagactccg	taaccaaact	cttcggactg	300
tgagccctga	tgcctttttg	ccagccatac	tctttggcat	ccagtctctc	gtggcgattg	360
attatgcttg	tgtgaggcaa	tcatgggtggc	atcacccata	aagggaacac	atttgacttt	420
tttttctcat	attttaaatt	actacmagaw	tattwmagaw	waaatgawtt	gaaaaactst	480
taaaaaaaaa	aaaaaa					496

<210> 185
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 185

gctggtagcc	tatggcgkkg	cccacggagg	ggctcctgag	gccacggrac	agtgacttcc	60
caagtatcyt	gcgcsogtc	ttctaccgtc	cctacctgca	gatcttcggg	cagattcccc	120
aggaggacat	ggacgtggcc	ctcatggagc	acagcaactg	ytcgctcgag	ccgggcttct	180
gggcacaccc	tcctggggcc	caggcgggca	cctgcgtctc	ccagtatgcc	aactggctgg	240
tggtgctgct	cctcgctcatc	ttcctgctcg	tggccaacat	cctgctggtc	aacttgctca	300
ttgccatgtt	cagttacaca	ttcggcaaag	tacagggcaa	cagcgatctc	tactgggaag	360
gcgcagcgtt	accgctcat	ccgg				384

<210> 186
 <211> 577
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(577)
 <223> n = A,T,C or G

<400> 186

gagttagctc	ctccacaacc	ttgatgaggt	cgtctgcagt	ggcctctcgc	ttcataccgc	60
tnccatcgtc	atactgtagg	tttgccacca	cytcttggea	tcttggggcg	gcntaatatt	120
ccaggaaact	ctcaatcaag	tcaccgtcga	tgaaacctgt	gggctgggtc	tgtcttcgcg	180
tgggtgtgaa	aggatctccc	agaaggagtg	ctcgatcttc	cccacacttt	tgatgacttt	240
attgagtcga	ttctgcatgt	ccagcaggag	gttgtagacc	ctctctgaca	gtgaggtcac	300
cagccctatc	atgccgttga	mcgtgccgaa	garcaccgag	ccttgtgttg	gggkkgaaat	360

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<210> 187
<211> 534
<212> DNA
<213> Homo sapien
```

<400> 187

```
<210> 188
<211> 761
<212> DNA
<213> Homo sapien
```

<400> 188

<210>	189
<211>	482
<212>	DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(482)

<223> n = A,T,C or G

<400> 189

tttttttttt	tttgccgatn	ctactatfff	attgcaggan	gtgggggtgt	atgcaccgca	60
caccgggggt	atnagaagca	agaaggaagg	agggagggca	cagccccttg	ctgagcaaca	120
aagccgcttg	ctgccttctc	tgtctgtctc	ctggtgcagg	cacatgggga	gaccttcccc	180
aaggcagggg	ccaccagttc	aggggtggga	atacaggggg	tgggangtgt	gcataagaag	240
tgataggcac	aggccacccg	gtacagaccc	ctcggctcct	gacaggtnga	tttcgaccag	300
gtcatttgtc	cctgcccagg	cacagcgtan	atctggaaaa	gacagaatgc	tttccttttc	360
aaatttggtc	ngtcatngaa	ngggcanttt	tccaanttng	gctnggtctt	ggtacncttg	420
gttcggccca	gtccnccgtc	caaaaantat	tcaccennct	ccnaattgct	tgcnggnccc	480
cc						482

<210> 190

<211> 471

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(471)

<223> n = A,T,C or G

<400> 190

tttttttttt	ttttaaaaca	gtttttcaca	acaaaattta	ttagaagaat	agtggttttg	60
aaaactctcg	catccagtga	gaactacat	acaccacatt	acagctngga	atgtntctca	120
aatgtctggt	caaatagata	aatggaacca	ttcaatctta	cacatgcacg	aaagaacaag	180
cgtttttgac	atacaatgca	caaaaaaaaa	aggggggggg	gaccacatgg	attaaaattt	240
taagtactca	tcacatacat	taagacacag	ttctagtcca	gtcnaaaatc	agaactgcnt	300
tgaaaaattt	catgtatgca	atccaaccaa	agaacttnat	tggatgatcat	gantnctcta	360
ctacatcnac	cttgatcatt	gccaggaacn	aaaagttnaa	ancacncngt	acaaaaanaa	420
tctgtaattn	anttcaacct	ccgtacngaa	aaatnttnnt	tatacactcc	c	471

<210> 191

<211> 402

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(402)

<223> n = A,T,C or G

<400> 191

gagggattga	aggctctgttc	tastgtcggm	ctgttcagcc	accaaactcta	acaagttgct	60
gtcttccact	cactgtctgt	aagcttttta	acccagacwg	tatcttcata	aatagaacaa	120
attcttcacc	agtcacatct	tctaggacct	ttttggattc	agttagtata	agctottcca	180
cttcttttgt	taagacttca	tctggtaaag	tcttaagttt	tgtagaaagg	aattyaattg	240
ctcgtttctt	aacaatgtcc	tctccttgaa	gtatttggct	gaacaaccca	cctaaagtcc	300

```
<210> 192
<211> 601
<212> DNA
<213> Homo sapien
```

<400> 192

```
<210> 193
<211> 608
<212> DNA
<213> Homo sapien
```

<400> 193

```
<210> 194
<211> 392
<212> DNA
<213> Homo sapien
```

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

<400> 194
 gaacggctgg accttgccctc gcatttgtgt tgctggcagg gaataccttg gcaagcagyt 60
 ccagtcagag cagccccaga ccgctgccgc ccgaagctaa gcctgcctct ggccttcccc 120
 tccgcctcaa tgcagaacca gtagtgggag cactgtgttt agagttaaga gtgaacactg 180
 tttgatttta cttgggaatt tcctctgtta tatagctttt cccaatgcta atttccaaac 240
 aacaacaaca aaataacatg tttgcctgtt aagttgtata aaagtaggtg attctgtatt 300
 taaagaaaat attactgtta catatactgc ttgcaatttc tgtattttatt gktnctstgg 360
 aaataaatat agttattaaa ggttgtcant cc 392

<210> 195
 <211> 502
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(502)
 <223> n = A,T,C or G

<400> 195
 ccsttkgagg ggtkaggkyc cagttyccga gtggaagaaa caggccagga gaagtgcgtg 60
 ccgagctgag gcagatgttc ccacagtgc cccagagacc stgggstata gtytctgacc 120
 cctcncaagg aaagaccacs ttctggggac atgggctgga gggcaggacc tagaggcacc 180
 aaggggaagg cccattccgg ggstgttccc cgaggaggaa gggaaggggc tctgtgtgcc 240
 ccccasgagg aagaggccct gagtccctgg atcagacacc ctttcacgtg tatccccaca 300
 caaatgcaag ctcaccaagg tcccctctca gtccccttcc stacaccctg amcggccact 360
 gscscacacc caccagagc acgccaccgc ccattggggar tgtgctcaag gartcgcnng 420
 gcarcgtgga catctngtcc cagaaggggg cagaatctcc aatagangga ctgarcmstt 480
 gctnanaaaa aaaaaaaaaa aa 502

<210> 196
 <211> 665
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(665)
 <223> n = A,T,C or G

<400> 196
 ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60
 cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt 120
 wagctgtttk gagttgatts gcaccactgc acccacaact tcaatatgaa aacyawttga 180
 actwatattat tatcttgtga aaagtataac aatgaaaatt ttgttcatac tgtattkatc 240
 aagtatgatg aaaagcaawa gatatatatt cttttattat gttaaattat gattgccatt 300
 attaatcggc aaaatgtgga gtgtatgttc ttttcacagt aatatatgcc ttttgtaact 360
 tcaacttggt attttattgt aaatgartta caaaattctt aatttaagar aatggatgt 420
 watatttatt tcattaattt ctttcctkgt ttacgtwaat ttgaaaaga wtgcatgatt 480

tcttgacaga	aatcgatctt	gatgctgtgg	aagtagtttg	accacatcc	ctatgagttt	540
ttcttagaat	gtataaaggt	tgtagcccat	cnaacttcaa	agaaaaaat	gaccacatac	600
tttgcaatca	ggctgaaatg	tggcattgctn	ttctaattcc	aactttataa	actagcaaan	660
aagtg						665

<210> 197
 <211> 492
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(492)
 <223> n = A,T,C or G

tttntttttt	ttttttttgc	aggaaggatt	ccattttattg	tggtatgcatt	ttcacaatat	60
atgtttattg	gagcgatcca	ttatcagtga	aaagtatcaa	gtgtttataa	natttttagg	120
aaggcagatt	cacagaacat	gctngtcngc	ttgcagtttt	acctcgtana	gatnacagag	180
aattatagtc	naaccagtaa	acnaggaatt	tacttttcaa	aagattaaat	ccaaactgaa	240
caaaattcta	ccctgaaact	tactccatcc	aaatatgtga	ataanagtca	gcagtgatac	300
attctcttct	gaactttaga	ttttctagaa	aaatatgtaa	tagtgatcag	gaagagctct	360
tgttcaaaag	tacaacnaag	caatgttccc	ttaccatagg	ccttaattca	aactttgatc	420
catttcactc	ccatcacggg	agtcaatgct	acctgggaca	cttgtatttt	gttcatnctg	480
ancntggctt	aa					492

<210> 198
 <211> 478
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(478)
 <223> n = A,T,C or G

tttnttttgn	atttcantct	gtannaanta	ttttcattat	gtttattana	aaaatatnaa	60
tgtntccacn	acaaatcatn	ttacntnagt	aagaggccan	ctacattgta	caacatacac	120
tgagtatatt	ttgaaaagga	caagttttaa	gtanacncat	attgccganc	atancacatt	180
tatacatggc	ttgattgata	tttagcacag	canaaactga	gtgagttacc	agaaaanaat	240
natatatgtc	aatcngatth	aagatacaaa	acagatccta	tggtacatan	catcntgtag	300
gagttgtggc	tttatgttta	ctgaaagtca	atgcagttcc	tgtacaaaaga	gatggccgta	360
agcattctag	tacctctact	ccatgggtta	gaatcgtaca	cttatgttta	catatgtnca	420
gggtaagaat	tgtgttaagt	naanttatgg	agaggtccan	gagaaaaatt	tgatncaa	478

<210> 199
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)

<223> n = A,T,C or G

<400> 199

```

agtgacttgt cctccaacaa aaccccttga tcaagtttgt ggcactgaca atcagaccta    60
tgctagtcc  tgcctctat  tcgctactaa atgcagactg gaggggacca aaaaggggca    120
tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga    180
agtgattcag tttcctctac ggatgagaga ctggctcaag aatatcctca tgcagcttta    240
tgaagccnac tctgaacacg ctggttatct nagatgagaa ncagagaaat aaagtcnaga    300
aaatttacct ggangaaaag aggcttting ctggggacca tccattgaa ccttctctta    360
anggacttta agaanaaact accacatgtn tgtngtatcc tggtgccngg ccgtttantg    420
aacntngacn ncacccttnt ggaatanant cttgacngcn tcctgaactt gtcctctctgc    480
ga

```

<210> 200

<211> 270

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(270)

<223> n = A,T,C or G

<400> 200

```

cggccgcaag tgcaactcca gctggggcgg tgcggacgaa gattctgcc a gcagttggtc    60
cgactgcgac gacggcgggcg ggcacagtcg caggtgcagc gcgggcgcct ggggtcttgc    120
aaggetgagc tgacgccgca gaggtcgtgt caggtccac  gaccttgacg ccgtcgggga    180
cagccggaac agagcccggg gaangcggga ggcctcgggg agcccctcgg gaagggcggc    240
ccgagagata cgcaggtgca ggtggccgcc

```

<210> 201

<211> 419

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(419)

<223> n = A,T,C or G

<400> 201

```

tttttttttt ttttggaaac tactgcgagc acagcaggtc agcaacaagt ttattttgca    60
gctagcaagg taacagggta gggcatggtt acatgttcag gtcaacttcc tttgtcgtgg    120
ttgattgggt tgtctttatg ggggcggggg ggggtagggg aaancgaagc anaantaaca    180
tggagtgggt gcacctccc tgtagaacct ggttacnaaa gcttggggca gttcacctgg    240
tctgtgaccg tcattttctt gacatcaatg ttattagaag tcaggatata ttttagagag    300
tccactgtnt ctggagggag attagggttt cttgccanaa tccaancaa atccacntga    360
aaaagttgga tgatncangt acngaatacc ganggcatan ttctcatant cggtggccca    419

```

<210> 202

<211> 509

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(509)
 <223> n = A,T,C or G

<400> 202

tttntttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tggcacttaa	tccattttta	tttcaaaatg	tctacaaant	ttnaatncnc	cattatacng	120
gtnattttnc	aaaatctaaa	nntttattcaa	atnfnagcca	aantccttac	ncaaattnnaa	180
tacncncaaa	aatcaaaaaat	atacntntct	ttcagcaaac	ttngttacat	aaattaaaaa	240
aatatatacg	gctggtgttt	tcaaagtaca	attatcttaa	cactgcaaac	atnttttnnaa	300
ggaactaaaa	taaaaaaaaa	cactnccgca	aagggttaaag	ggaacaacaa	attcntttta	360
caacancnnc	nattataaaa	atcatacttc	aaatcttagg	ggaatatata	cttcacacng	420
ggatcttaac	ttttactnca	ctttgtttat	ttttttanaa	ccattgtntt	gggcccaaca	480
caatggnaat	nccnccnccn	tggaactagt				509

<210> 203
 <211> 583
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(583)
 <223> n = A,T,C or G

<400> 203

tttttttttt	ttttttttga	ccccctcttt	ataaaaaaca	agttaccatt	ttatttttact	60
tacacatatt	tatttttataa	ttggtatttag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaatc	tgcctaaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	attttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tcttttaaaat	tatctaattc	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcattttc	tagctcttat	ctactattag	taagtggcct	ttttcctaaa	360
agggaaaaca	ggaagagana	atggcacaca	aaacaaacat	tttatattca	tatttctacc	420
tacgttaata	aaatagcatt	ttgtgaagcc	agctcaaaag	aaggcttaga	tccttttatg	480
tccatttttag	tcactaaacg	atatacnaag	tgccagaatg	caaaagggtt	gtgaacattt	540
attcaaaagc	taatataaga	tattttcacat	actcatcttt	ctg		583

<210> 204
 <211> 589
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(589)
 <223> n = A,T,C or G

<400> 204

ttttttttnt	tttttttttt	tttttttctc	ttcttttttt	ttganaatga	ggatcgagtt	60
tttactcttc	tagatagggc	atgaagaaaa	ctcatctttc	cagcttttaa	ataacaatca	120
aatctcttat	gctatatcat	attttaagtt	aaactaatga	gtcactggct	tatcttctcc	180
tgaaggaaat	ctgttcattc	ttctcattca	tatagttata	tcaagtacta	ccttgcatat	240
tgagagggtt	ttcttctcta	tttacacata	tattttccatg	tgaatttgta	tcaaaccctt	300

```

attttcatgc aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag 360
cattacaaaa ctgctcaa at tgtttgttaa gnttatccat tataattagt tnggcaggag 420
ctaatacaaaa tcacattttac ngacnagcaa taataaaact gaagtaccag ttaaatatcc 480
aaaataatta aaggaacatt tttagcctgg gtataattag ctaattcact ttacaagcat 540
ttattnagaa tgaattcaca tggtattatt cntagccca acacaatgg 589

```

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<210> 205
<211> 545
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(545)
<223> n = A,T,C or G

```

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<400> 205
tttttntttt ttttttcagt aataatcaga acaatatatta tttttatatt taaaattcat 60
agaaaagtgc cttacattta ataaaaagttt gtttctcaaa gtgatcagag gaattagata 120
tngtcttgaa caccaatatt aatttgagga aaatacacca aaatacatta agtaaattat 180
ttaagatcat agagcttgta agtgaaaaga taaaatttga cctcagaaac tctgagcatt 240
aaaaatccac tattagcaaa taaattacta tggacttctt gctttaattt tgtgatgaat 300
atgggggtgc actggtaa ac caacacattc tgaaggatac attacttagt gatagattct 360
tatgtacttt gctanatnac gtggatatga gttgacaagt ttctctttct tcaatctttt 420
aaggggngc ngaaatgagg aagaaaagaa aaggattacg catactgttc tttctatngg 480
aaggattaga tatgtttcct ttgccaatat taaaaaata ataatgttta ctactagtga 540
aacc 545

```

```

<210> 206
<211> 487
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(487)
<223> n = A,T,C or G

```

```

<400> 206
tttttttttt ttttttagtc aagtttctna tttttattat aattaaagtc ttggtcattt 60
catttattag ctctgcaact tacatatatta aattaaagaa acgttnttag acaactgtna 120
caatttataa atgtaagggtg ccattattga gtanatatat tctccaaga gtggatgtgt 180
cccttctccc accaactaat gaancagcaa cattagtta attttattag tagatnatac 240
actgctgcaa acgctaattc tcttctccat ccccatgtng atattgtgta tatgtgtgag 300
ttggtnagaa tgcatcanca atctnacaat caacagcaag atgaagctag gcntgggctt 360
tcggtgaaaa tagactgtgt ctgtctgaat caaatgatct gacctatcct cggtggcaag 420
aactcttcga accgcttcct caaaggcngc tgccacattt gtggcntctn ttgcacttgt 480
ttcaaaa 487

```

```

<210> 207
<211> 332
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

<400> 207
 tgaattggct aaaagactgc atttttanaa ctagcaactc ttatttcttt cttttaaaaa 60
 tacatagcat taaatcccaa atcctattta aagacctgac agcttgagaa ggtcactact 120
 gcatttatag gaccttctgg tggttctgct gttacntttg aantctgaca atccttgana 180
 atctttgcat gcagaggagg taaaaggat tggattttca cagaggaana acacagcgca 240
 gaaatgaagg ggccaggctt actgagcttg tccactggag ggctcatggg tgggacatgg 300
 aaaagaaggc agcctaggcc ctggggagcc ca 332

<210> 208
 <211> 524
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(524)
 <223> n = A,T,C or G

<400> 208
 agggcggtgg gcggagggcg ttactgtttt gtctcagtaa caataaatac aaaaagactg 60
 gttgtgttcc ggcccatcc aaccacgaag ttgatttctc ttgtgtgcag agtgactgat 120
 tttaaaggac atggagcttg tcacaatgtc acaatgtcac agtgtgaagg gcacactcac 180
 tcccgcgtga ttcacattta gcaaccaaca atagctcatg agtccatact tgtaaatact 240
 tttggcagaa tacttnttga aacttgcaga tgataactaa gatccaagat atttcccaa 300
 gtaaatagaa gtgggtcata atattaatta cctgttcaca tcagcttcca tttacaagtc 360
 atgagccag aactgacat caaactaagc ccacttagac tcctcaccac cagtctgtcc 420
 tgtcatcaga caggaggctg tcaccttgac caaattotca ccagtcaatc atctatccaa 480
 aaaccattac ctgatccact tccggtaatg caccaccttg gtga 524

<210> 209
 <211> 159
 <212> DNA
 <213> Homo sapien

<400> 209
 ggggtgaggaa atccagagtt gccatggaga aaattccagt gtcagcatto ttgctccttg 60
 tggccctctc ctacactctg gccagagata ccacagtcaa acctggagcc aaaaaggaca 120
 caaaggactc tcgacccaaa ctgccccaga ccctotcca 159

<210> 210
 <211> 256
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(256)
 <223> n = A,T,C or G

<400> 210
 actccctggc agacaaaggc agaggagaga gctctgttag ttctgtgttg ttgaactgcc 60
 actgaatttc tttccacttg gactattaca tgccanttga gggactaatg gaaaaacgta 120
 tggggagatt ttanccaatt tangtntgta aatggggaga ctggggcagg cgggagagat 180
 ttgcagggtg naaatgggan ggctgggttg ttanatgaac aggacatag gaggtaggca 240
 ccagatgct aatca 256

<210> 211
 <211> 264
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 211
 acattgtttt tttagataa agcattgaga gagctctcct taacgtgaca caatggaagg 60
 actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180
 ggggagatac attcngaaag aggactgaaa gaaatactca agtnggaaaa cagaaaaaga 240
 aaaaaaggag caaatgagaa gcct 264

<210> 212
 <211> 328
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 212
 acccaaaaaat ccaatgctga atatttggct tcattattcc canattcttt gattgtcaaa 60
 ggattttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120
 gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccgccag 180
 ttnaatttca ttccattga ctgggatcc ttatcatcag ccagagagat tgaaaattta 240
 cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca 300
 tttttttttc ctttattcct ttgtcaga 328

<210> 213
 <211> 250
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 213
 acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60

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<210> 214
<211> 444
<212> DNA
<213> Homo sapien
```

<400> 214

```
<210> 215
<211> 366
<212> DNA
<213> Homo sapien
```

<400> 215

```
<210> 216
<211> 260
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc feature
<222> (1)...(260)
<223> n = A,T,C or G
```

<400> 216
 ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgtc 60
 caagacaggg gcctaaggag ggtctccaca ctgctnntaa gggctnttnc atttttttat 120
 taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa 180
 atcaaaaatt tctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat 240
 aattcttctt tccctccttt 260

<210> 217
 <211> 262
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 217
 acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60
 tcttgccat aattttctat ttttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120
 ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180
 atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240
 atatccttca tgcttgtaaa gt 262

<210> 218
 <211> 205
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(205)
 <223> n = A,T,C or G

<400> 218
 accaaggtgg tgcattaccg gaantggatc aangacacca tegtggccaa cccctgagca 60
 cccctatcaa ctcccttttg tagtaaactt ggaaccttgg aaatgaccag gccaagactc 120
 aggctcccc agttctactg acctttgtcc ttangtntna ngtccagggt tgctaggaaa 180
 anaaatcagc agacacaggt gtaaa 205

<210> 219
 <211> 114
 <212> DNA
 <213> Homo sapien

<400> 219
 tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60
 accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220
 <211> 93
 <212> DNA
 <213> Homo sapien

<400> 220
 actagccagc acaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60
 aaataagcat ttagtgctca gtccctactg agt 93

<210> 221
 <211> 167
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(167)
 <223> n = A,T,C or G

<400> 221
 actangtgca ggtgcgcaca aatatttgct gatattccct tcattcttgga ttccatgagg 60
 tcttttgccc agcctgtggc tctactgtag taagtctctg ctgatgagga gccagnatgc 120
 cccccactac ctccctgac gctcccana aatcacccaa cctctgt 167

<210> 222
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 222
 agggcgctggt gcggagggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60
 gttcttcacc tgtcccccaa tccttaaaag gccatactgc ataaagtcaa caacagataa 120
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180
 tttctctttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240
 taggtgagca tgattagaga gcttgtaggt tgcttttaca tatatctggc atatttgagt 300
 ctcgtatcaa aacaatagat tggtaaagggt ggtattattg tattgataag t 351

<210> 223
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 223
 aaaacaaaca aacaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60
 tggtaattat ggtcaattta atwrtrttkt ggggcatttc cttacattgt cttgacaaga 120
 ttaaaatgtc tgtgccaaaa ttttgatatt tatttgagga cttcttatca aaagtaatgc 180
 tgccaaagga agtctaagga attagtagtg ttcccmtoac ttgtttggag tgtgctattc 240
 taaaagattt tgatttcctg gaatgacaat tatattttta ctttggtggg ggaaanagtt 300
 ataggaccac agtcttcact tctgatactt gttaaattaat cttttattgc acttgttttg 360
 accattaagc tatatgttta aaa 383

<210> 224
 <211> 320
 <212> DNA

<213> Homo sapien

<400> 224

cccctgaagg	cttcttggtta	gaaaatagta	cagttacaac	caataggaac	aacaaaaaga	60
aaaagtttgt	gacattgtag	tagggagtgt	gtacccttca	ctcccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggaat	atcttatcat	atgttctaaa	agagaaggaa	180
gagaaaatac	tactttctcr	aaatggaagc	ccttaaaggt	gctttgatac	tgaaggacac	240
aaatgtggcc	gtccatcctc	ctttaragtt	gcatgacttg	gacacggtaa	ctgttgagct	300
tttaractcm	gcattgtgac					320

<210> 225

<211> 1214

<212> DNA

<213> Homo sapien

<400> 225

gaggactgca	gcccgcactc	gcagccctgg	caggcgccac	tggtcattga	aaacgaattg	60
ttctgctcgg	gcgctcctgg	gcacccgcag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatggtgg	agccagcct	ctccgtacgg	cacccagagt	acaacagacc	cttgctcgtc	240
aacgacctca	tgctcatcaa	gttggaacga	tcctgtgctc	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	gcctcgtttc	tggctggggg	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	ggtggtgtct	420
gaggaggtct	gcagtaagct	ctatgaccgg	ctgtaccacc	ccagcatgtt	ctgcgccggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	ggggggccct	gatctgcaac	540
gggtacttgc	agggccttgt	gtcttttcgga	aaagcccggt	gtggccaagt	tggcgtgcca	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatatc	tggtccagc	ccctcctccc	tcaggcccag	gagtcagggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccctcctc	ccctcagacc	caggagtcca	840
gacccccag	cccctcctcc	ctcagaccca	ggagtccagc	ccctcctccc	tcagacccag	900
gagtcagac	ccccagcccc	ctcctccctc	agacccaggg	gtccagggcc	ccaacccctc	960
ctccctcaga	ctcagaggtc	caagccccc	acccctcctt	ccccagaccc	agaggtccag	1020
gtcccagccc	ctcctccctc	agacccagcg	gtccaatgcc	acctagactc	tcctgttaca	1080
cagtcccccc	ttgtggcacg	ttgacccaac	cttaccagtt	ggtttttcat	tttttgtccc	1140
tttcccttag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226

<211> 119

<212> DNA

<213> Homo sapien

<400> 226

accagtatg	tgcagggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227

<211> 818

<212> DNA

<213> Homo sapien

<400> 227

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggtctctcc	ccagccctga	60
------------	------------	------------	------------	------------	------------	----

tttttgctac	atatggggtc	ccttttcatt	ctttgcaaaa	acactggggt	ttctgagaac	120
acggacgggt	cttagcacia	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcctc	ctctggagga	aaggtgggtg	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300
gcttgtcccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttcct	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaagggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcggt	tccagagaca	480
acctgctggc	tgtcttgagg	tgcgcccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	caactgagttg	tcatgagagg	600
gacaggctct	gccctcaagc	cggtctgagg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtcgtgt			818

<210> 228

<211> 744

<212> DNA

<213> Homo sapien

<400> 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaacg	gcctcctcct	tggaagatgg	aagaccgtgt	120
tctgtggccga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgtctcgtgc	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtc	acctctgcag	360
gctggcagct	gaatggcttg	ccggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacgggtg	ttggccactc	ccttctaaaa	cacagggccc	ctcctgggtg	cagtgacccg	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttggggtttg	600
ttcttttctg	taatgttctc	ctgtgtttgc	agctgtcttc	atttctggg	ctaagcagca	660
ttggggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttcactctg	aagtagctgg	tggt				744

<210> 229

<211> 300

<212> DNA

<213> Homo sapien

<400> 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaaggtggc	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacagct	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctatttttcc	acctgcagag	gatccagttc	240
cactaggtctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<210> 230

<211> 301

<212> DNA

<213> Homo sapien

<400> 230

cagcagaaca	aatacaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120

caatataaag tctctggttca cactcaggaa cgagagotga cccagttaag ggagaagttg 180
 cggaagggga gagatgcctc cctctcattg aatgagcatc tccaggccct cctcactccg 240
 gatgaaccgg acaagtccca ggggcaggac ctccaagaaa cagacctcgg ccgcgaccac 300
 g 301

<210> 231
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 231
 gcaagcacgc tggcaaactct ctgtcaggtc agctccagag aagccattag tcatttttagc 60
 caggaactcc aagtccacat ccttggcaac tggggacttg cgcaggttag ccttgaggat 120
 ggcaacacgg gacttctcat caggaagtgg gatgtagatg agctgatcaa gacggccagg 180
 tctgaggatg gcaggatcaa tgatgtcagg ccggttggtc ccgccaatga tgaacacatt 240
 tttttttgtg gacatgccat ccatttctgt caggatctgg ttgatgactc ggtcagcagc 300
 c 301

<210> 232
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 232
 agtaggtatt tctgtgagaag ttcaacacca aaactggaac atagttctcc ttcaagtgtt 60
 ggcgacagcg gggcttctctg attctggaat ataactttgt gtaaattaac agccacctat 120
 agaagagtcc atctgctgtg aaggagagac agagaactct gggttccgtc gtctctgtcca 180
 cgtgctgtac caagtgtctg tgccagcctg ttacctgttc tactgaaaa tctggctaatt 240
 gctcttgtgt atcacttctg attctgacaa tcaatcaatc aatggcctag agcactgact 300
 g 301

<210> 233
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 233
 atgactgact tcccagtaag gctctctaag gggtaagtag gaggatccac aggatttgag 60
 atgctaaggc cccagagatc gtttgatcca accctcttat ttccagaggg gaaaatgggg 120
 cctagaagtt acagagcatc tagctggtgc gctggcacc cctggcctcac acagactccc 180
 gagtagctgg gactacaggc acacagtcac tgaagcaggc cctgttagca attctatgcg 240
 taaaaattaa catgagatga gtagagactt tattgagaaa gcaagagaaa atcctatcaa 300
 c 301

<210> 234
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 234
 aggtcctaca catcgagact catccatgat tgatatgaat ttaaaaatta caagcaaaga 60
 cattttattc atcatgatgc tttcttttgt ttcttctttt cgttttcttc tttttctttt 120
 tcaatttcag caacatactt ctcaatttct tcaggattta aaatcttgag ggattgatct 180
 cgcctcatga cagcaagtgc aatgtttttg ccacctgact gaaccacttc caggagtgcc 240

ttgatcacca gcttaatggg cagatcatct gcttcaatgg cttcgtcagt atagttcttc 300
t 301

<210> 235
<211> 283
<212> DNA
<213> Homo sapien

<400> 235
tggggctgtg catcaggcgg gtttgagaaa tattcaattc tcagcagaag ccagaatttg 60
aattccctca tcttttaggg aatcatttac caggtttgga gaggattcag acagctcagg 120
tgctttcact aatgtctctg aacttctgtc cctctttggt catggatagt ccaataaata 180
atgttatctt tgaactgatg ctcataggag agaataaag aactctgagt gatatcaaca 240
ttagggattc aaagaaatat tagatttaag ctcacactgg tca 283

<210> 236
<211> 301
<212> DNA
<213> Homo sapien

<400> 236
aggtcctcca ccaactgcct gaagcacggg taaaattggg aagaagtata gtgcagcata 60
aatactttta atcgcagcag atttccctaa cccacatgca atcttcttca ccagaagagg 120
tcggagcagc atcattaata ccaagcagaa tgcgtaatag ataaatacaa tggatatatg 180
tgggtagacg gttcatgag tacagtgtac tgtggtatcg taatctggac ttgggttgta 240
aagcatcgtg taccagtcag aaagcatcaa tactcgacat gaacgaatat aaagaacacc 300
a 301

<210> 237
<211> 301
<212> DNA
<213> Homo sapien

<400> 237
cagtggtagt ggtgggtggc gtggcggttg tcgtggtgcc ttttttggtg cccgtcacaa 60
actcaatttt tggtcgctcc tttttggcct tttccaattt gtccatctca attttctggg 120
ccttggtctaa tgctcatag taggagtcct cagaccagcc atggggatca aacatatcct 180
ttgggtagtt ggtgccaagc tcgtcaatgg cacagaatgg atcagcttct cgtaaactca 240
gggttccgaa attctttctt cctttggata atgtagttca tatccattcc ctcctttatc 300
t 301

<210> 238
<211> 301
<212> DNA
<213> Homo sapien

<400> 238
gggcagggtt tttttttttt ttttttgatg gtgcagaccc ttgctttatt tgtctgactt 60
gttcacagtt cagccccctg ctcaaaaaac caacgggccca gctaaggaga ggaggaggca 120
ccttgagact tccggagtcg aggtcttcca gggttcccca gcccatcaat cattttctgc 180
acccccctgc tgggaagcag ctccctgggg ggtgggaatg ggtgactaga agggatttca 240
gtgtgggacc cagggtctgt tcttcacagt aggaggtgga agggatgact aatttcttta 300
t 301

<210> 239
 <211> 239
 <212> DNA
 <213> Homo sapien

<400> 239
 ataagcagct aggggaattct ttatttagta atgtcctaac ataaaagtgc acataactgc 60
 ttctgtcaaaa ccatgatact gagctttgtg acaaccaga aataactaag agaaggcaaa 120
 cataatacct tagagatcaa gaaacattta cacagttcaa ctgtttaaaa atagctcaac 180
 attcagccag tgagtagagt gtgaatgcc a gcatacacag tatacaggtc cttcaggga 239

<210> 240
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 240
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 gggatctgcc ctccagtgg aaccttttaag gaagaagtgg gcccaagcta agttccacat 120
 gctgggtgag ccagatgact tctgttccct gggtcactttc ttcaatgggg cgaatggggg 180
 ctgccagggt tttaaaatca tgcttcatct tgaagcacac gggtcacttca cctcctcac 240
 gctgtgggtg tactttgatg aaaataccca ctttgttggc ctttctgaag ctataatgtc 300

<210> 241
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 241
 gaggtctggt gctgagggtct ctgggctagg aagaggaggt ctgtggagct ggaagccaga 60
 cctcttttga ggaaactcca gcagctatgt tgggtgtctct gagggagtgc aacaaggctg 120
 ctctccatg tatttgaaaa ctgcacactg gactcaactg gaaggagtgt ctgctgccag 180
 tgtgaagaac cagcctgagg tgacagaaac ggaagcaaac aggaacagcc agtcttttct 240
 tcctcctcct gtcatacagg ctctctcaag catcctttgt tgtcaggggc ctaaaaggga 300
 g 301

<210> 242
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 242
 ccgaggtcct gggatgcaac caatcactct gtttcacgtg acttttatca ccatacaatt 60
 tgtggcattt cctcattttc tacattgtag aatcaagagt gtaaataaat gtatatcgat 120
 gtcttcaaga atatatcatt cctttttcac tagaaccat tcaaaatata agtcaagaat 180
 cttaatatca acaaatatat caagcaaact ggaaggcaga ataactacca taatttagta 240
 taagtaccca aagttttata aatcaaaaagc cctaatagata accattttta gaattcaatc 300
 a 301

<210> 243
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 243
 aggtaagtcc cagtttgaag ctcaaaagat ctggtatgag cataggctca tcgacgacat 60
 ggtggcccaa gctatgaaat cagagggagg cttcatctgg gcctgtaaaa actatgatgg 120
 tgacgtgcag tcggactctg tggcccaagg gtatggctct ctcgcatga tgaccagcgt 180
 gctggtttgt ccagatggca agacagtaga agcagaggct gccacggga ctgtaaccgc 240
 tcaactaccgc atgttccaga aaggacagga gacgtccacc aatcccattg ctccatttt 300
 t 301

<210> 244
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 244
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120
 ccagggacct tggaaacagt tgacactgta aggtgcttgc tccccaaagac acatcctaaa 180
 aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc ctttcttatt tatgtgaaca 240
 actgtttgc ttttgtgtat cttttttaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 245
 gtctgagtat ttaaaatggt attgaaatta tccccaaacca atgttagaaa agaaagaggt 60
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120
 aaggccagga gatattgtca ttaatgtara cttcaggaca cttagagtata gcagccctat 180
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240
 agctaataaa atgaaagacc taatttctaa agcaattctt tataatttac aaagttttaa 300
 g 301

<210> 246
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 246
 ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60
 acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240
 caaatgtgtc ttacaaaaca cgttcctaac aaggtatgct ttacactacc aatgcagaaa 300
 c 301

<210> 247
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 247
 aggtcctttg gcagggtcctc tggatcagag ctcaaactgg agggaaaggc atttcgggta 60
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttgttt ccccccagct 120

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gtgtcctgtg ttcagggtgcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180
ccttgatgat caagggttggg gcttaagtgg attaaggagg gcaagttctg ggttccttgc 240
cttttcaaac catgaagtca ggctctgtat ccctcctttt cctaactgat attctaacta 300
a 301

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<210> 248
<211> 301
<212> DNA
<213> Homo sapien

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<400> 248
aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact 60
attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa ctttaagaatt 120
acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag 180
gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag 240
ctaattgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300
c 301

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<210> 249
<211> 301
<212> DNA
<213> Homo sapien

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<400> 249
gtccagagga agcacctggt gctgaactag gcttgccctg ctgtgaactt gcacttggag 60
ccttgacgct gctgttctcc ccgaaaaacc cgaccgaact ccgcgatctc cgtcccgcgc 120
ccaggagagac acagcagtga ctacagagctg gtgcacact gtgcctccct cctcaccgcc 180
catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag 240
actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300
a 301

```

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<210> 250
<211> 301
<212> DNA
<213> Homo sapien

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<400> 250
ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacacttctc 60
cttatcttta ttggcttgat aaacataaatt atttctaaca ctacttatt tccagttgcc 120
cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240
caataaaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300
a 301

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<210> 251
<211> 301
<212> DNA
<213> Homo sapien

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```

<400> 251
gcgcaggtcc tacatttggc ccagtttccc cctgcctcct ctccagggcc cctgcctcat 60
agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120
ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct 180
cattgggatc aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgaa 240

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cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatacct 300
c 301

<210> 252
<211> 301
<212> DNA
<213> Homo sapien

<400> 252
gcaaccaatc actctgtttc acgtgacttt tatcaccata caatttgttg catttcctca 60
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata 120
tcatttccttt ttacttagga acccattcaa aatataagtc aagaatctta atatcaacaa 180
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag tacccaaagt 240
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc 300
a 301

<210> 253
<211> 301
<212> DNA
<213> Homo sapien

<400> 253
ttccctaaga agatgttatt ttgttgggtt ttgttccccc tccatctcga ttctcgtacc 60
caactaaaaa aaaaaaataa agaaaaaatg tgctgcgttc tgaaaaataa ctcccttagct 120
tgggtctgatt gttttcagac cttaaaatat aaacttggtt cacaagcttt aatccatgtg 180
gatttttttt cttagagaac cacaaaacat aaaaggagca agtcggactg aatacctgtt 240
tccatagtgc ccacagggta ttccctcacat tttctccata ggaaaatgct ttttcccaag 300
g 301

<210> 254
<211> 301
<212> DNA
<213> Homo sapien

<400> 254
cgctgcgcct ttcccttggg ggaggggcaa ggccagaggg ggtccaagtg cagcacgagg 60
aacttgacca attcccttga agcgggtggg ttaaaccctg taaatgggaa caaatcccc 120
ccaaatctct tcatcttacc ctggttgact cctgactgta gaattttttg gttgaaacaa 180
gaaaaaaata aagcttttga cttttcaagg ttgcttaaca ggtactgaaa gactggcctc 240
acttaaaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc 300
t 301

<210> 255
<211> 302
<212> DNA
<213> Homo sapien

<400> 255
agcttttttt tttttttttt tttttttttt ttcattaaaa aatagtgtct tttattataa 60
attactgaaa tgtttctttt ctgaatataa atataaatat gtgcaaagtt tgacttggat 120
tgggattttt ttgagttctt caagcatctc ctaataccct caagggcctg agtagggggg 180
aggaaaaagg actggaggtg gaatctttat aaaaaacaag agtgattgag gcagattgta 240
aacattatta aaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac 300
aa 302

<210> 256
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 256
 gttccagaaa acattgaagg tggcttccca aagtctaact agggataccc cctctagcct 60
 aggaccctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc 120
 acccccaaaa gcctggacac cttgagcaca cagttatgac caggacagac tcctctctat 180
 aggcaaatac ctgctggcaa actggcatta cctggtttgt ggggatggg gggcaagtgt 240
 gtggcctctc ggctgggta gcaagaacat tcagggtagg cctaagttan tcgtgttagt 300
 t 301

<210> 257
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 257
 gttgtggagg aactctggct tgctcattaa gtcctactga ttttactat cccctgaatt 60
 tccccactta tttttgtctt tcaactatcg aggccttaga agaggtctac ctgcctccag 120
 tottacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat 180
 gtcacattac tcccttcagt gatctcttgt agaagtgcc atccctgaat gccaccaaga 240
 tottaatctt cacatcttta atcttatctc tttgactcct ctttacaccg gagaaggctc 300
 c 301

<210> 258
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 258
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 aggggcccag ccaccaggcg cagaagcaag ataaacagta ggctcaagac cagagccacc 120
 cccagggcaa caagaatcca ataccaggac tgggcaaaat cttcaaagat cttaacactg 180
 atgtctcggg cattgagget gtcaataana cgctgatccc ctgctgtatg gtggtgtcat 240
 tgggtgatccc tgggagcgcc ggtggagtaa cgttgggtcca tggaaagcag cgcccacaac 300
 t 301

<210> 259
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 259
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 gtgtcctgaa gtgatttga cccctgaggg cagacaccta agtaggaatc ccagtgggaa 120
 gcaaagccat aaggaagccc aggattcctt gtgatcagga agtgggccag gaaggctctgt 180
 tccagctcac atctcatctg catgcagcac ggaccggatg cgcccactgg gtcttggcctt 240
 ccctcccatc ttctcaagca gtgtccttgt tgagccattt gcatccttgg ctccaggtgg 300
 c 301

<210> 260
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 260
 ttttttttct ccctaaggaa aaagaaggaa caagtctcat aaaaccaa at aagcaatgg 60
 aagggtgtctt aacttgaaaa agattaggag tcaactgggtt acaagttata attgaatgaa 120
 agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaaca caggattaac 180
 tagggcaaaa taaataagtg tgtggaagcc ctgataagtg cttaataaac agactgattc 240
 actgagacat cagtacctgc ccgggcgggc gctcgagccg aattctgcag atatccatca 300
 c 301

<210> 261
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 261
 aaatatttga gcaaatcctg taactaatgt gtctccataa aaggctttga actcagtga 60
 tctgtctcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tcttaagggtt 120
 agcaccaact attccataca attcatcagc aggaataaaa ggctcttcag aagggttcaat 180
 ggtgacatcc aatttcttct gataatttag attcctcaca accttcctag ttaagtgaag 240
 ggcatgatga tcatccaaag ccacagtggc acttactcca gactttctgc aatgaagatc 300
 a 301

<210> 262
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 262
 gaggagagcc tgttacagca tttgtaagca cagaatactc caggagtatt tgtaattgtc 60
 tgtgagcttc ttgccgcaag tctctcagaa atttaaaaag atgcaaatac ctgagtcacc 120
 cctagacttc ctaaaccaga tctcttgggg ctggaacctg gactctgca tttgtaatga 180
 gggctttctg gtgcacacct aattttgtgc atctttgccc taaatcctgg attagtgc 240
 catcattacc ccacattat aatgggatag attcagagca gatactctcc agcaaagaat 300
 c 301

<210> 263

<211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 263

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aaaattacta	cttaaatccta	attcacaata	acaatggcat	taaggtttga	cttgagttgg	120
ttcttagtat	tatttatggg	aaataggctc	ttaccacttg	caaataactg	gccacatcat	180
taatgactga	cttcccagta	aggctctcta	aggggtaagt	angaggatcc	acaggatttg	240
agatgctaag	gccccagaga	tcgtttgatc	caaccctctt	attttcagag	gggaaaatgg	300
g						301

<210> 264
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 264

aaagacgtta	aaccactcta	ctaccacttg	tggaactctc	aaagggtaaa	tgacaaaacc	60
aatgaatgac	tctaaaaaca	atattttacat	ttaatggttt	gtagacaata	aaaaaacaag	120
gtggatagat	ctagaattgt	aacattttta	gaaaaccata	scatttgaca	gatgagaaaag	180
ctcaattata	gatgcaaagt	tataactaaa	ctactatagt	agtaaagaaa	tacattttcac	240
acccttcata	taaattcact	atcttggctt	gaggcactcc	ataaaatgta	tcacgtgcat	300
a						301

<210> 265
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 265

tgcccaagtt	atgtgtaagt	gtatccgcac	ccagaggtaa	aactacactg	tcattctttgt	60
cttcttgtga	cgcagtatct	cttctctggg	gagaagccgg	gaagtcttct	cctggctcta	120
catattcttg	gaagtctcta	atcaactttt	gttccatttg	tttcatttct	tcaggaggga	180
ttttcagttt	gtcaacatgt	tctctaacaa	cacttgccca	tttctgtaaa	gaatccaaag	240
cagtccaagg	ctttgacatg	tcaacaacca	gcataactag	agtatccttc	agagatacgg	300
c						301

<210> 266
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 266

taccgtctgc	ccttctctcc	atccaggcca	tctgcgaatc	tacatgggtc	ctcctattcg	60
acaccagatc	actctttcct	ctaccacag	gcttgctatg	agcaagagac	acaacctcct	120
ctcttctgtg	ttccagcttc	ttttctgtt	cttcccaccc	cttaagttct	attcctgggg	180
atagagacac	caatacccat	aacctctctc	ctaagcctcc	ttataacca	gggtgcacag	240
cacagactcc	tgacaactgg	taaggccaat	gaactgggag	ctcacagctg	gctgtgcctg	300

301

<400> 267

<400> 268

<400> 269

<400> 270

cattgaagag	cttttgcgaa	acatcagaac	acaagtgttt	ataaaattaa	ttaagcctta	60
cacaagaata	catattcctt	ttattttctaa	ggagttaaac	atagatgtag	ctgatgtgga	120
gagcttgctg	gtgcagtgca	tattggataa	cactattcat	ggcgaattg	atcaagtaa	180
ccaactcctt	gaactggatc	atcagaagaa	gggtggtgca	cgatatactg	cactagataa	240
tggaccaacc	aactaaattc	tctcaccagg	ctgtatcagt	aaactggctt	aacagaaaac	300
a						301

<210> 271
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 271
 aaaagggttct cataagatta acaattttaa taaatatttg atagaacatt ctttctcatt 60
 tttatagctc atcttttaggg ttgatattca gttcatgctt cccttgctgt tcttgatcca 120
 gaattgcaat cacttcatca gcctgtattc gctccaattc tctataaagt gggccaag 180
 tgaaccacag agccacagca cacctctttc ccttggtgac tgccttcacc ccatganggt 240
 tctctctcc agatganaac tgatcatgcg cccacatttt gggttttata gaagcagtca 300
 c 301

<210> 272
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 272
 taaattgcta agccacagat aacaccaatc aaatggaaca aatcactgtc ttcaaagtgc 60
 ttatcagaaa accaaatgag cctggaatct tcataatacc taaacatgcc gtatttagga 120
 tccaataatt ccctcatgat gagcaagaaa aattotttgc gcacccctcc tgcattccaca 180
 gcatcttctc caacaaatat aaccttgagt ggcttcttgc aatctatgtt ctttgtttcc 240
 ctaaggactt ccattgcac tctacaata ttttctctac gcaccactag aattaagcag 300
 g 301

<210> 273
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 273
 acatgtgtgt atgtgtatct ttgggaaan aanaagacat cttgtttayt atttttttgg 60
 agagangctg ggacatggat aatcacwtaa tttgctayta tyactttaat ctgactygaa 120
 gaaccgtcta aaaataaaat ttaccatgtc dtatattcct tatagtatgc ttatttcacc 180
 ttytttctgt ccagagagag tatcagtgac ananatttma ggggaamac atgmattggg 240
 gggacttnty tttacngagm accctgcccg sgcgcctcg makngantt ccgcsananc 300
 t 301

<210> 274
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 274

```
<210> 275
<211> 301
<212> DNA
<213> Homo sapien
```

<400> 275

```
<210> 276
<211> 301
<212> DNA
<213> Homo sapien
```

<400> 276

```
<210> 277
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(301)  
<223> n = A,T,C or G
```

<400> 277

```

tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag      60
atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg      120
gaatcatggc actcctgata ctttcccaaa tcaacactct caatgcccca ccctcgtcct      180
caccatagtg gggagactaa agtggccacg gatttgcctt anggtgtcag tgcgttctga      240
gttcnctgtc gattacatct gaccagtctc ctttttccga agtcntccg ttcaatcttg      300
c

```

301

<210> 278

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 278

```

taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat      60
aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca      120
cagtctctac tgttattatg cattacctgg gaatttatat aagcccttaa taataatgcc      180
aatgaacatc tcatgtgtgc tcacaatggt ctggcactat tataagtgtc tcacagggtt      240
tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt      300
c

```

301

<210> 279

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 279

```

aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact      60
gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc      120
ttagaccttt accttccagc caccacacag tgcttgatat ttcagagtca gtcattgggt      180
atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac      240
catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag      300
a

```

301

<210> 280

<211> 301

<212> DNA

<213> Homo sapien

<400> 280

```

ggtactggag ttttctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg      60
tagaaagggt gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct      120
tgagaaaaaa acctaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg      180
gtttgatata gtttaggggt ggggttagat taagatctaa attacatcag gacaaagaga      240

```

240

```
<210> 281
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 282
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 283
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 284
<211> 301
<212> DNA
<213> Homo sapien
```

<400>	284						
caggtacaaa	acgctattaa	gtggccttaga	atttgaacat	tttgtggtcct	tattttacttt		60
gcttcgtgtg	tgggcaaagc	aacatcttcc	ctaaatatat	attaccaaga	aaagcaagaa		120
gcagattagg	tttttgacaa	aacaaacagg	ccaaaagggy	gctgacctgg	agcagagcat		180
ggtgagaggg	aaggcatgag	agggcaagtt	tgttggtggac	agatctgtgc	ctacttttatt		240
actggagtaa	aagaaaacaa	agtttcattga	tgtcgaagga	tatatacagt	gtttagaaatt		300
a							301

<210> 285
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 285
 acatcaccat gatcggatcc cccacccatt atacgttgta tgtttacata aatactcttc 60
 aatgatcatt agtggtttta aaaaaatact gaaaactcct tctgcatccc aatctctaac 120
 caggaaagca aatgctatct acagacctgc aagccctccc tcaaacnaaa ctatttctgg 180
 attaaatatg tctgacttct tttagaggta cagcactagg caaatgctat ttacgatctg 240
 caaaagctgt ttgaagagtc aaagccccc tgtgaacacg atttctggac cctgtaacag 300
 t 301

<210> 286
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 286
 taccactgca ttccagcctg ggtgacagag tgagactccg tctccaaaaa aaactttgct 60
 tgtatattat ttttgccctta cagtggatca ttctagtagg aaaggacagt aagatttttt 120
 atcaaaatgt gtcatgccag taagagatgt tatattcttt tctcatttct tccccacca 180
 aaaataagct accatatagc ttataagtct caaatttttg ctttttacta aaatgtgatt 240
 gtttctgttc attgtgtatg cttcatcacc tatattaggc aaattccatt ttttcccttg 300
 t 301

<210> 287
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 287
 tacagatctg ggaactaaat attaaaaatg agtgtggctg gatatatgga gaatgttggg 60
 cccagaagga acgtagagat cagatattac aacagctttg ttttgagggt tagaaatatg 120
 aaatgatttg gttatgaacg cacagttagg gcagcagggc cagaatcctg accctctgcc 180
 ccgtgggttat ctctcctccc gcttggctgc ctcatgttat cacagtattc cattttgttt 240
 gttgcatgtc ttgtgaagcc atcaagattt tctcgtctgt tttcctctca ttggtaatgc 300
 t 301

<210> 288
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 288
 gtacacctaa ctgcaaggac agctgaggaa tgtaatgggc agccgctttt aaagaagtag 60
 agtcaatagg aagacaaatt ccagttccag ctccagtctgg gtatctgcaa agctgcaaaa 120
 gatcttttaa gacaatttca agagaatatt tccttaaagt tggcaatttg gagatcatac 180


```

aaaagcatct gcttttgtga ttttaatttag ctcatctggc cactggaaga atccaaacag      240
tctgccttaa ttttgatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa      300
a                                                                           301

```

```

<210> 289
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 289
ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtcc tggaaactta      60
gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg      120
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa      180
cgttctataa atgaatgtgc tgaagcaaag tgcccatggg ggccggcgaan aagagaaaga      240
tgtgttttgt tttggactct ctgtgggtccc ttccaatgct gtgggtttcc aaccagngga      300
a                                                                           301

```

```

<210> 290
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 290
aactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac      60
tgactgatct gttcatttct ctacagctc ttaccccaa aagcttttcc accctaagtg      120
ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg      180
gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc      240
tgccctgaac aaaaacattt ctccatgtct cttttcttc atgcctcaag taacagtga      300
a                                                                           301

```

```

<210> 291
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 291
caggtaccaa tttcttctat cctagaaaca tttcatttta tgttgttgaa acataacaac      60
tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc      120
tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat      180
agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa      240
acatgagctt cacttcccca ctaactaatt agcatctgtt atttcttaac cgtaatgcct      300
a                                                                           301

```

```

<210> 292

```

<211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 292
 accttttagt agtaatgtct aataataaat aagaaatcaa ttttataagg tccatatagc 60
 tgtattaaat aatttttaag tttaaaagat aaaataccat catttttaaat gttggtattc 120
 aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaatgat ttgcnagatg 180
 ggaaatatag tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc 240
 tcactacaca cacagacccc acagtcctat atgccacaaa cacatttcca taacttgaaa 300
 a 301

<210> 293
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 293
 ggtaccaagt gctgggtgcc gctgtttacc tgtttctcact gaaaagtctg gctaattgctc 60
 ttgtgtagtc actttctgatt ctgacaatca atcaatcaat ggcctagagc actgactgtt 120
 aacacaaacg tcaactagcaa agtagcaaca gctttaagtc taaatacaaa gctgtttctgt 180
 gtgagaatth tttaaaaggc tactttgtata ataacccttg tcattttttaa tgtacctcgg 240
 ccgcgaccac gctaagccga attctgcaga tatccatcac actggcgggc gctcgagcat 300
 g 301

<210> 294
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 294
 tgaccataa caatatacac tagctatctt tttaactgtc catcattagc accaatgaag 60
 attcaataaa attaccttta ttcacacatc tcaaaaacaat tctgcaaatt cttagtgaag 120
 tttaactata gtcacaganc ttaaattatc acattgtttt ctatgtctac tgaaaataag 180
 ttcaactatt ttctgggata ttctttacaa aatcttatta aaattcctgg tattatcacc 240
 cccaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagagggt 300
 t 301

<210> 295
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 295

```

gtactctttc tctccctcc tctgaattta attctttcaa cttgcaattt gcaaggatta      60
cacatttcac tgtgatgtat attgtgttgc aaaaaaaaaa gtgtctttgt ttaaaattac      120
ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga      180
actggtagaa aaacrtctga agagctagtc tctcagcatc tgacaggtga attggatggg      240
tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttgggt      300
tctct                                          305

```

```

<210> 296
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 296
aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct      60
cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg      120
attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac      180
tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt      240
tgtcattact ataaatttta aaatctgtta ataagatggc ctataggagg gaaaaagggg      300
c                                          301

```

```

<210> 297
<211> 300
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

```

<400> 297
actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta      60
aaggttttga aaaccttgaa ggagaatcat tttgacaaga agtacttaag agtctagaga      120
acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt      180
tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtgggc      240
accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc acactggcgg      300

```

```

<210> 298
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 298
tatgggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc cctcccgcg      60
ggcatctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgccggctg      120
tgaagctctc agatcaatca cggaaggggc ctggcggttg tggccacctg gaaccacctt      180
gtcctgtctg ttacatttc actaycaggt tttctctggg cattacnatt tgttccccta      240
caacagtgac ctgtgcattc tgctgtggcc tgctgtgtct gcaggtggct ctcagcgagg      300
t                                          301

```

<210> 299
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 299
 gttttgagac ggagtttcac tcttgttgcc cagactggac tgcaatggca gggctctctgc 60
 tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc 120
 tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg 180
 gagtttcgcc atgttggcca gctggtctca aactcctgac ctcaagcgac ctgcctgcct 240
 cggcctccca aagtgtctga attataggca tgagtcaaca cgcccagcct aaagatatatt 300
 t 301

<210> 300
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 300
 attcagtttt atttgctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga 60
 tatgtcccac acccactggg aaaggctccc acctggctac ttctctatc agctgggtca 120
 gctgcattcc acaaggttct cagcctaatt agtttacta cctgccagtc tcaaaactta 180
 gtaaagcaag accatgacat tccccacgg aaatcagagt ttgccccacc gtcttggtac 240
 tataaagcct gcctctaaca gtccttgctt cttcacacca atcccagcgc catcccccat 300
 g 301

<210> 301
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 301
 tttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc 60
 agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt 120
 gggaaactcac aaagaccctc agagctgaga caccacaaac agtgggagct cacaaagacc 180
 ctgagagctg agacaccac aacagtggga gctcacaag accctcagag ctgagacacc 240
 cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt 300
 t 301

<210> 302
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 302
 aggtacacat ttagcttggt gtaaatgact cacaaaactg attttaaaat caagttaatg 60
 tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac 120
 ttgagttggt tcttagtatt atttatggta aataggctct taccacttgc aaataactgg 180
 ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca 240
 caggatttga gatgctaagg ccccagagat cgtttgatcc aaccctctta ttttcagagg 300
 g 301

<210> 303

<210> 307
<211> 637

<212> DNA

<213> Homo sapien

<400> 307

acaggggratg	aagggaaagg	gagaggatga	ggaagcccc	ctggggattt	ggtttggtcc	60
ttgtgatcag	gtggtctatg	gggcttatcc	ctacaaagaa	gaatccagaa	ataggggcac	120
attgaggaat	gatacttgag	cccaaagagc	attcaatcat	tgttttattt	gccttmtttt	180
cacaccattg	gtgagggagg	gattaccacc	ctgggggttat	gaagatgggt	gaacacccca	240
cacatagcac	cggagatatg	agatcaacag	tttcttagcc	atagagattc	acagcccaga	300
gcaggaggac	gcttgccacac	catgcaggat	gacatggggg	atgctgctcg	gattgggtgtg	360
aagaagcaag	gactgttaga	ggcaggcttt	atagtaacaa	gacggtgggg	caaactctga	420
tttccgtggg	ggaatgtcat	ggtcttgctt	tactaagttt	tgagactggc	aggtagtgaa	480
actcattagg	ctgagaacct	tgtggaatgc	acttgacca	scgatagag	gaagtagcca	540
ggtgggagcc	tttcccagtg	ggtgtgggac	atatctggca	agattttgtg	gcactcctgg	600
ttacagatac	tggggcagca	aataaaaactg	aatcttg			637

<210> 308

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 308

acgattttca	ttatcatgta	aatcgggtca	ctcaaggggc	caaccacagc	tgggagccac	60
tgctcagggg	aaggttcata	tgggactttc	tactgcccc	ggttctatac	aggatataaa	120
ggngcctcac	agtatagatc	tggtagcaaa	gaagaagaaa	caaacactga	tctctttctg	180
ccacccctct	gaccctttgg	aaactcctctg	accctttaga	acaagcctac	ctaataatctg	240
ctagagaaaa	gaccaacaac	ggcctcaaa	gatctcttac	catgaaggtc	tcagctaatt	300
cttggttaag	atgtgggttc	cacattagg	tctgaatatg	gggggaagg	tcaatttgct	360
cattttgtgt	gtggataaag	tcaggatgcc	cagggggccag	agcagggggc	tgcttgcttt	420
gggaacaatg	gctgagcata	taaccatagg	ttatggggaa	caaaacaaca	tcaaagtcac	480
tgtatcaatt	gccatgaaga	cttgagggac	ctgaatctac	cgattcatct	taaggcagca	540
ggaccagttt	gagtggcaac	aatgcagcag	cagaatcaat	ggaaacaaca	gaatgattgc	600
aatgtccttt	ttttctcct	gcttctgact	tgataaaagg	ggaccgt		647

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

actttatagt	ttaggctgga	cattggaaaa	aaaaaaaaagc	cagaacaaca	tgtgatagat	60
aatatgattg	gctgcacact	tccagactga	tgaatgatga	acgtgatgga	ctattgtatg	120
gagcacatct	tcagcaagag	ggggaaatac	tcattcattt	tggccagcag	ttgtttgatc	180
accaaacatc	atgccagaat	actcagcaaa	ccttcttagc	tcttgagaag	tcaaagtcag	240
ggggaattta	ttcctggcaa	ttttaattgg	actccttatg	tgagagcagc	ggctacccag	300
ctggggtggt	ggagcgaacc	cgctactagt	ggacatgcag	tggcagagct	cctggtaacc	360
acctagagga	atacacaggc	acatgtgtga	tgccaagcgt	gacacctgta	gcactcaaat	420
ttgtcttgtt	tttgtctttc	ggtgtgtaag	attcttaagt			460

<210> 310
 <211> 539
 <212> DNA
 <213> Homo sapien

<400> 310
 acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg 60
 ctaaagggtt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt 120
 taggaaagag aaacacagaa ggaagagaca caataaaaagt cattatgtat tctgtgagaa 180
 gtcagacagt aagatttgtg ggaaatgggt tggtttggtg tatggtatgt attttagcaa 240
 taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgac acttgctgaa 300
 ttcctcaagg taggcatgat gaaggagggt ttagaggaga cacagacaca atgaactgac 360
 ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc aactgtgac 420
 atgattatgt cattacatgt atggtagtga tggggatgat aggaaggaag aacttatggc 480
 atattttcac cccacaaaa gtcagttaaa tattgggaca ctaaccatcc aggtcaaga 539

<210> 311
 <211> 526
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

<400> 311
 caaatttgag ccaattgacat agaattttac aaatcaagaa gcttattctg gggccatttc 60
 ttttgacgtt ttctctaaac tactaaagag gcattaatga tccataaatt atattatcta 120
 catttacagc atttaaaatg tgttcagcat gaaatattag ctacagggga agctaaataa 180
 attaaacatg gaataaagat ttgtccttaa atataatcta caagaagact ttgatatttg 240
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 aaaatgggga aactctgaag ggttttaagt atcttacctg aagctacaga ctccataacc 360
 tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc 420
 acagcaagag cttctcatct aaacccttct cctttttagt atctgtgtat caagtataaa 480
 agttctataa actgtagtnt acttatttta atcccaaaag cacagt 526

<210> 312
 <211> 500
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(500)
 <223> n = A,T,C or G

<400> 312
 cctctctctc cccaccccct gactctagag aactgggttt tctcccagta ctccagcaat 60
 tcattttctga aagcagttga gccactttat tccaaagtac actgcagatg ttcaaactct 120
 ccattttctt ttcccttcca cctgccagtt ttgctgactc tcaacttgtc atgagtgtaa 180
 goattaagga cattatgctt cttecgattct gaagacaggc cctgctcatg gatgactctg 240
 gcttcttagg aaaatatatt tcttccaaaa tcagtaggaa atctaaactt atccccctctt 300
 tgcagatgtc tagcagcttc agacatttgg ttaagaacct atgggaaaaa aaaaaatcct 360

```

tgctaattgtg gtttcctttg taaaccanga ttcttatttg nctggtatag aatatcagct 420
ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt 480
tagtcttaat tatctattgg 500

```

```

<210> 313
<211> 718
<212> DNA
<213> Homo sapien

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```

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

```

```

<400> 313
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tgatgataca gaggtgagaa ataagaaagg ctgctgactt taccatctga ggccacacat 120
ctgctgaaat ggagataatt aacatcacta gaaacagcaa gatgacaata taatgtctaa 180
gtagtacat gtttttgcac atttccagcc cttttaata tccacacaca caggaagcac 240
aaaaggaagc acagagatcc ctgggagaaa tgcccggccg ccatcttggg tcatcgatga 300
gcctcgccct gtgcctgntc ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg 360
ttccttaaag gatggcagga aaacagatcc tgttgtggat atttatttga acgggattac 420
agatttgaag tgaagtcaca aagtgagcat taccaatgag aggaaaacag acgagaaaat 480
cttgatggtt cacaagacat gcaacaaaca aaatggaata ctgtgatgac acgagcagcc 540
aactggggag gagataccac ggggcagagg tcaggattct ggccctgctg cctaactgtg 600
cggtatacca atcatttcta tttctaccct caaacaagct gtngaataac tgacttacgg 660
ttcttntggc ccacatttct atnatccacc cntcntttt aannttantc caaantgt 718

```

```

<210> 314
<211> 358
<212> DNA
<213> Homo sapien

```

```

<400> 314
gtttatttac attacagaaa aaacatcaag acaatgtata ctatttcaaa tatatccata 60
cataatcaaa tatagctgta gtacatgttt tcattgggtg agattaccac aaatgcaagg 120
caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg ttagtccaa 180
gctctcggtg gtccagccac tgtgaaacat gctcccttta gattaacctc gtggacgctc 240
ttgttgatatt gctgaactgt agtgccctgt attttgcttc tgtctgtgaa ttctgttgct 300
tctggggcat ttccttgtga tgcagaggac caccacacag atgacagcaa tctgaatt 358

```

```

<210> 315
<211> 341
<212> DNA
<213> Homo sapien

```

```

<400> 315
taccacctcc ccgctggcac tgatgagccg catcaccatg gtcaccagca ccatgaaggc 60
ataggatgat atgaggacat ggaatgggcc cccaaggatg gtctgtccaa agaagcgagt 120
gacccccatt ctgaagatgt ctggaacctc taccagcagg atgatgatag ccccaatgac 180
agtcaccagc tccccgacca gccggatata gtccttaggg gtcattgagg ctctctgaag 240
tagcttctgc tgtaagaggg tggtgtcccg ggggctcgtg cggttattgg tcttgggctt 300
gagggggcgg tagatgcagc acatggtgaa gcagatgatg t 341

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<210> 316
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 316
 agactgggca agactcttac gccccacact gcaatttggc cttgttgccg tatccattta 60
 tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact 120
 cattcagggg gctctgggtg caatattagt t 151

<210> 317
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 317
 agaactagtg gacctaataa aaatacctga aacatatatt ggcattttatc aatgggtcaa 60
 atcttcattt atctctggcc ttaaccctgg ctctgagggc tgcggccagc agatcccagg 120
 ccagggctct gttcttgcca cacctgcttg a 151

<210> 318
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 318
 actggtggga ggcgctgttt agttggctgt tttcagaggg gtctttcgga gggacctcct 60
 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120
 tgggggcggg ttatcaggca gtgataaaca t 151

<210> 319
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 319
 aactagtggg tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta 60
 catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg 120
 taagattggg tttatgtgat tttagtgggt a 151

<210> 320
 <211> 150
 <212> DNA
 <213> Homo sapien

<400> 320
 aactagtggg tccactagtc cagtgtgggt gaattccatt gtgttggggg tctagatcgc 60
 gagcggctgc cctttttttt tttttttttt ggggggaatt tttttttttt aatagttatt 120
 gagtgttcta cagcttacag taaataacat 150

<210> 321
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 321
agcaactttg tttttcatcc aggttatttt aggcttagga tttctcttca cactgcagtt 60
taggggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg 120
tgctctgag aaatcaaagt cttcatacac t 151

<210> 322
<211> 151
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(151)
<223> n = A,T,C or G

<400> 322
atccagcatc ttctctgtt tcttgcttc cttttcttctc ttcttasatt ctgcttgagg 60
tttgggcttg gtcagtttg caccagggtt ggagatgggtg acagtcttct ggcattcggc 120
attgtgcagg gtcgcttca nacttccagt t 151

<210> 323
<211> 151
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(151)
<223> n = A,T,C or G

<400> 323
tgaggacttg tktttttttt cttttttttt aatcctctta ckttgtaaatt atattgccta 60
nagactcant tactaccag tttgtggtt twtgggagaa atgtaactgg acagtttagct 120
gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324
<211> 461
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G

<400> 324
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agaagtggtc agctaaagga atccagggtt ttggttggtgac tgtaataacc tttgatgaaa 120
agagttacta cgaatcccat cttgggtcca gctatatcac tgacagcatg gtagaagact 180
gcgaacctca cttctagact ttcacgggtg gacgaaacgg gttcagaaac tgccaggggc 240
ctcatacagg gatatacaaaa taccctttgt gctaccagg ccttggggaa tcaggtgact 300
cacacaaatg caatagtttg tcaactgcatt tttacctgaa ccaaagctaa acccggtgtt 360
gccaccatgc accatggcat gccagagttc aacactgttg ctcttgaaaa ttgggtctga 420

aaaaacgcac aagagcccct gccctgccct agctgangca c

461

<210> 325

<211> 400

<212> DNA

<213> Homo sapien

<400> 325

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tttgatgtct	ccaagtagtc	caccttcatt	taactctttg	aaactgtatc	atctttgcc	120
agtaagagtg	gtggcctatt	tcagctgctt	tgacaaaatg	actggctcct	gacttaacgt	180
tctataaatg	aatgtgctga	agcaaaagtgc	ccatggtggc	ggcgaagaag	agaaagatgt	240
gttttgtttt	ggactctctg	tggtcccttc	caatgctgtg	ggtttccaac	caggggaagg	300
gtcccttttg	cattgccaaag	tgccataaacc	atgagcacta	cgctaccatg	gttctgcctc	360
ctggccaagc	aggctggttt	gcaagaatga	aatgaatgat			400

<210> 326

<211> 1215

<212> DNA

<213> Homo sapien

<400> 326

ggaggactgc	agcccgcact	cgcagccctg	gcaggcggca	ctgggtcatgg	aaaacgaatt	60
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gaactectac	accatcgggc	tgggcctgca	cagtcttgag	gccgaccaag	agccagggag	180
ccagatggtg	gaggccagcc	tctccgtacg	gcacccagag	tacaacagac	ccttgctcgc	240
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catcagcatt	gcttcgcagt	gccctaccgc	ggggaactct	tgccctcgttt	ctggctgggg	360
tctgctggcg	aacggcagaa	tgccctaccgt	gctgcagtgc	gtgaacgtgt	cgggtggtgtc	420
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cggaggggcaa	gaccagaagg	actcctgcaa	cggtgactct	ggggggcccc	tgatctgcaa	540
cgggtacttg	cagggccttg	tgtctttcgg	aaaagccccg	tgtggccaag	ttggcgtgcc	600
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aaaaaaaaaa	aaaaa					1215

<210> 327

<211> 220

<212> PRT

<213> Homo sapien

<400> 327

Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met
1				5				10						15	
Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val
			20					25						30	

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<210> 328
<211> 234
<212> DNA
<213> Homo sapien
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atccgcagtg	ggtgctgtca	gccacacact	gtttccagaa	ctctacacc	atcgggctgg	180
gcctgcacag	tcttgaggcc	gaccaagagc	cagggagcca	gatggtggag	gcca	234

<400> 329

<210> 330

<211> 70
 <212> DNA
 <213> Homo sapien

<400> 330
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 gctgcagcca 70

<210> 331
 <211> 22
 <212> PRT
 <213> Homo sapien

<400> 331
 Gln His Asn Gly Pro Ile Pro Ser Leu Thr Pro Pro Ser Gly Ser Leu
 1 5 10 15
 Val Ser Gly Ser Cys Ser
 20

<210> 332
 <211> 2507
 <212> DNA
 <213> Homo sapien

<400> 332
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 gtacatcaac tggtcagctt cctgggaaag tagttgtggt cacaggagct aatacaggta 180
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<210> 333

<211> 3030

<212> DNA

<213> Homo sapien

<400> 333

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<210> 334

<211> 2417

<212> DNA

<213> Homo sapien

<400> 334

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<211> 2984
<212> DNA
<213> Homo sapien
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<210> 336

<211> 147

<212> PRT

<213> Homo sapien

<400> 336

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Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln
 35          40          45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
 50          55          60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
 65          70          75          80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
 85          90          95
Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala
100          105          110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
115          120          125
Ser Tyr Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro
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Ala Phe Trp
145

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<210> 337

<211> 9

<212> PRT

<213> Homo sapien

<400> 337

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Ala Leu Thr Gly Phe Thr Phe Ser Ala
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<210> 338

<211> 9

<212> PRT

<213> Homo sapien

<400> 338

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<210> 339

<211> 318

<212> PRT

<213> Homo sapien

<400> 339

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Cys	Thr	Ser	Thr	Val	Gln	Leu	Pro	Gly	Lys	Val	Val	Val	Val	Thr	Gly
		35					40					45			
Ala	Asn	Thr	Gly	Ile	Gly	Lys	Glu	Thr	Ala	Lys	Glu	Leu	Ala	Gln	Arg
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Gly	Ala	Arg	Val	Tyr	Leu	Ala	Cys	Arg	Asp	Val	Glu	Lys	Gly	Glu	Leu
65				70					75					80	
Val	Ala	Lys	Glu	Ile	Gln	Thr	Thr	Thr	Gly	Asn	Gln	Gln	Val	Leu	Val
				85				90						95	
Arg	Lys	Leu	Asp	Leu	Ser	Asp	Thr	Lys	Ser	Ile	Arg	Ala	Phe	Ala	Lys
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Gly	Phe	Leu	Ala	Glu	Glu	Lys	His	Leu	His	Val	Leu	Ile	Asn	Asn	Ala
		115					120					125			
Gly	Val	Met	Met	Cys	Pro	Tyr	Ser	Lys	Thr	Ala	Asp	Gly	Phe	Glu	Met
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His	Ile	Gly	Val	Asn	His	Leu	Gly	His	Phe	Leu	Leu	Thr	His	Leu	Leu
145				150					155					160	
Leu	Glu	Lys	Leu	Lys	Glu	Ser	Ala	Pro	Ser	Arg	Ile	Val	Asn	Val	Ser
				165				170						175	
Ser	Leu	Ala	His	His	Leu	Gly	Arg	Ile	His	Phe	His	Asn	Leu	Gln	Gly
			180				185					190			
Glu	Lys	Phe	Tyr	Asn	Ala	Gly	Leu	Ala	Tyr	Cys	His	Ser	Lys	Leu	Ala
		195				200						205			
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Val	Thr	Thr	Tyr	Ser	Val	His	Pro	Gly	Thr	Val	Gln	Ser	Glu	Leu	Val
225				230						235				240	
Arg	His	Ser	Ser	Phe	Met	Arg	Trp	Met	Trp	Trp	Leu	Phe	Ser	Phe	Phe
				245					250					255	
Ile	Lys	Thr	Pro	Gln	Gln	Gly	Ala	Gln	Thr	Ser	Leu	His	Cys	Ala	Leu
			260					265					270		
Thr	Glu	Gly	Leu	Glu	Ile	Leu	Ser	Gly	Asn	His	Phe	Ser	Asp	Cys	His
	275					280						285			
Val	Ala	Trp	Val	Ser	Ala	Gln	Ala	Arg	Asn	Glu	Thr	Ile	Ala	Arg	Arg
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<210> 340
 <211> 483
 <212> DNA
 <213> Homo sapien

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 ctg 483

<210> 341
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 <212> DNA
 <213> Homo sapien

<400> 341
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<210> 342
 <211> 592
 <212> DNA
 <213> Homo sapien

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<210> 343
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 343
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cttgtaactc tcctttctcc tttcttcccc tttctctgcc cgcctttccc atcctgctgt    180
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<210> 344
<211> 536
<212> DNA
<213> Homo sapien

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<210> 345
<211> 251
<212> DNA
<213> Homo sapien

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<400> 345
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```

<210> 346
<211> 282
<212> DNA
<213> Homo sapien

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<222> (1)...(282)
<223> n = A,T,C or G

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<400> 346
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agaaaggctt tctatttcac tggcccaggc agggggaagg agagtaactt tgagtctgtg    240
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<210> 347
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<212> DNA

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<213> Homo sapien

<220>

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<222> (1)...(201)

<223> n = A,T,C or G

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<210> 348

<211> 251

<212> DNA

<213> Homo sapien

<400> 348

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<210> 349

<211> 251

<212> DNA

<213> Homo sapien

<400> 349

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<210> 350

<211> 908

<212> DNA

<213> Homo sapien

<400> 350

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aatcgag						908

<210> 351
 <211> 472
 <212> DNA
 <213> Homo sapien

<400> 351						
ccagttat	gcaagtgg	agagcctatt	taccataaat	aataactaaga	accaactcaa	60
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cattaacttg	attttaaaat	cagwtttg	agtcattttac	cacaagctaa	atgtgtacac	180
tatgataaaa	acaaccattg	tattcctgtt	tttctaaaca	gtcctaattt	ctaactgt	240
atatacctt	cgacatcaat	gaactttgtt	ttcttttact	ccagtaataa	agtaggcaca	300
gatctgtcca	caacaaactt	gccctctcat	gccttgctc	tcaccatgct	ctgctccagg	360
tcagccccct	tttggcctgt	ttgttttgtc	aaaaaccta	tctgcttctt	gcttttcttg	420
gtaatatata	tttagggaag	atgttgcttt	gccacacac	gaagcaaagt	aa	472

<210> 352
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 352						
ctcaaagcta	atctctcggg	aatcaaacca	gaaaagggca	aggatcttag	gcatggtgga	60
tgtggataag	gccaggtcaa	tggttgcaag	catgcagaga	aagaggtaca	tcggagcgtg	120
caggctgcgt	tccgtcctta	cgatgaagac	cacgatgcag	tttccaaaca	ttgccactac	180
atacatggaa	aggaggggga	agccaaccca	gaaatgggct	ttctctaata	ctgggatacc	240
aataagcaca	a					251

<210> 353
 <211> 436
 <212> DNA
 <213> Homo sapien

<400> 353						
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gtatccaaaa	gcaaaacagc	agatatata	aattaaagag	acagaagata	gacattaaca	180
gataaggcaa	cttatacatt	gacaatocaa	atccaatata	tttaaactt	tggaagtga	240
gggggacaaa	tggaagccar	atcaaatttg	tgtaaaacta	ttcagtatgt	ttcccttgct	300
tcagtgtctga	raaggctctc	ccttcaatgg	ggatgacaaa	ctccaaatgc	cacacaaatg	360
ttaacagaat	actagattca	cactggaacg	ggggtaaga	agaaattatt	ttctataaaa	420
gggctcctaa	tgtagt					436

<210> 354
 <211> 854
 <212> DNA
 <213> Homo sapien

<400> 354

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<210> 355
<211> 676
<212> DNA
<213> Homo sapien
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<210> 356
<211> 574
<212> DNA
<213> Homo sapien
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$\langle 210 \rangle$	357
$\langle 211 \rangle$	393

<212> DNA

<213> Homo sapien

<400> 357

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aagccacaac	caaracttga	ttttatcaac	aaaaaccct	aaatataaac	ggsaaaaaag	180
atagatataa	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tggttatatg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300
gcataatctg	tacaaaatta	aactgtcctt	tttggcattt	taacaaattt	gcaacgktct	360
tttttttctt	tttctgtttt	tttttttttt	tac			393

<210> 358

<211> 630

<212> DNA

<213> Homo sapien

<400> 358

acagggtaaa	caggaggatc	cttgctctca	cggagcttac	attctagcag	gaggacaata	60
ttaatgttta	taggaaaatg	atgagtttat	gacaaaggaa	gtagatagt	ttttacaaga	120
gcatagagta	gggaagctaa	tccagcacag	ggaggtcaca	gagacatccc	taaggaagt	180
gagtttaaac	tgagagaagc	aagtgcctaa	actgaaggat	gtggtgaaga	agaagggaga	240
gtagaacaat	ttgggcagag	ggaacccttat	agaccctaag	gtgggaagg	tcaaagaact	300
gaaagagagc	tagaacagct	ggagccgttc	tccggtgtaa	agaggagtca	aagagataag	360
attaaagatg	tgaagattaa	gatcttggtg	gcattcaggg	attggcactt	ctacaagaaa	420
tactgaagg	gagtaatgtg	acattacttt	tacttcagg	atggccattc	taactccagg	480
gggtagactg	gactaggtaa	gactggaggc	aggtagacct	cttctaaggc	ctgcgatagt	540
gaaagacaaa	aataagtggg	gaaattcagg	ggatagttaa	aatcagtagg	acttaatgag	600
caagccagag	gttctctcac	aacaaccagt				630

<210> 359

<211> 620

<212> DNA

<213> Homo sapien

<400> 359

acagcattcc	aaaatataca	tctagagact	aarrgtaaat	gctctatagt	gaagaagtaa	60
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ctcaccagaa	gaataaagtg	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
atggcattcc	ccaagggaaa	tagagagatt	cttctggatt	atgttcaata	tttatttcac	240
aggattaact	gttttaggaa	cagatataaa	gcttcgccac	ggaagagatg	gacaaagcac	300
aaagacaaca	tgatacctta	ggaagcaaca	ctaccctttc	aggcataaaa	tttgagaaa	360
tgcaacatta	tgcttcattg	ataatatgta	gaaagaagg	ctgatgaaaa	tgacatcctt	420
aatgtaagat	aacttttata	gaattctggg	tcaaataaaa	ttctttgaag	aaaacatcca	480
aatgtcattg	acttatcaaa	tactatcttg	gcataatacc	tatgaaggca	aaactaaaca	540
aacaaaaagc	tcacaccaaa	caaaaccatc	aacttatttt	gtattctata	acatacgaga	600
ctgtaaagat	gtgacagtgt					620

<210> 360

<211> 431

<212> DNA

<213> Homo sapien

<400> 360


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aaaaaaaaa agccagaaca acatgtgata gataatatga ttggetgcac acttcagac      60
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tactcatcat ttttggccag cagttgtttg atcaccaaac atcatgccag aatactcagc      180
aaaccttctt agctcttgag aagtcaaagt ccgggggaat ttattcctgg caattttaat      240
tggactcctt atgtgagagc agcggctacc cagctggggt ggtggagcga acccgctact      300
agtggacatg cagtggcaga gtcctggta accacctaga ggaatacaca ggcacatgtg      360
tgatgccaag cgtgacacct gtagcactca aatttgtctt gtttttgtct ttcggtgtgt      420
agattcttag t                                     431

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<210> 361

<211> 351

<212> DNA

<213> Homo sapien

<400> 361

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aacttgattt ccgatcaaaa gaatcatcat ctttaccttg acttttcagg gaattactga      60
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ttgggtctct tgggtctctt ccaagtttcc cagccactcg agggagaaat atcgggaggt      180
ttgacttcct ccggggcttt cccgagggtc tcaccgtgag cctgcgggcc ctgagggtg      240
caatcctgga ttcaatgtct gaaacctcgc tctctgcctg ctggacttct gaggcggtca      300
ctgccactct gtctccagc tctgacagct cctcatctgt ggtcctgttg t                                     351

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<210> 362

<211> 463

<212> DNA

<213> Homo sapien

<400> 362

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acttcatcag gccataatgg gtgcctcccg tgagaatcca agcacctttg gactgcgcga      60
ttagatgag ccggctgaag atcttgcgca tgcgcggctt cagggcgaag ttcttggcgc      120
ccccggtcac agaaatgacc aggttgggtg ttttcagggt ccagtgtctg gtcagcagct      180
cgtaaaggat ttccgcgtcc gtgtgcgagg acagacgtat atacttccct ttcttccca      240
gtgtctcaaa ctgaatatcc ccaaaggcgt cggtaggaaa ttcttgggtg tgtttcttgt      300
agttccattt ctcactttgg ttgatctggg tgccttccat gtgctggctc tgggcatagc      360
cacacttgca cacattctcc ctgataagca cgatggtgtg gacaggaagg aaggatttca      420
ttgagcctgc ttatggaaac tggatttggt agcttaataa gac                                     463

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<210> 363

<211> 653

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(653)

<223> n = A,T,C or G

<400> 363

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ctcttgngna ttctgggtga catcttcatg aatggcaacc gtgccagwga ggctgtcctc      120
tgaggaggcac tacgcaagat gggactgcgt cctgggggtga gacatcctct ccttggagat      180
ctaacgaaac ttctcaccta tgagttgtaa agcagaaata cctgnactac agacgagtgc      240
ccaacagcaa cccccggaa gtatgagttc ctctrgggcc tccgttcta ccatgagasc      300
tagcaagatg naagtgttg gantcattgc agaggttcag aaaagagacc cntcgtgact      360

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ggtctgcaca	gttcatggag	gctgcagatg	aggccttggg	tgtctctggat	gctgctgcag	420
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ntgggccctg	gagctgggat	gacattgagt	ttgagctgct	gacctgggat	gaggaaggag	540
attttggaga	tccntggtcc	agaattccat	ttaccttctg	ggccagatac	caccagaatg	600
cccgctccag	attccctcag	acctttgccg	gtcccattat	tggtctstggt	ggt	653

<210> 364

<211> 401

<212> DNA

<213> Homo sapien

<400> 364

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aaaacaaggt	ggatagatct	agaattgtaa	catttttaaga	aaaccatagc	atttgacaga	180
tgagaaagct	caattataga	tgcaaagtta	taactaaact	actatagtag	taaagaaata	240
catttcacac	ccttcatata	aattcactat	cttggttga	ggcactccat	aaaatgtatc	300
acgtgcatag	taaatcttta	tatttgctat	ggcgttgcac	tagaggactt	ggactgcaac	360
aagtggatgc	gcggaataatg	aaatcttctt	caatagccca	g		401

<210> 365

<211> 356

<212> DNA

<213> Homo sapien

<400> 365

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taccagagca	tcaagtctct	gcagcaggtc	attcttgggt	aaagaaatga	cttcacaaa	180
ctctccatcc	cctggctttg	gcttcggcct	tgcgttttcg	gcacatcttc	cgtaaatggt	240
gactgtcacg	atgtgtatag	tacagtttga	caagcctggg	tccatacaga	ccgctggaga	300
acattcggca	atgtccctt	tgtagccagt	ttcttcttcg	agctcccga	gagcag	356

<210> 366

<211> 1851

<212> DNA

<213> Homo sapien

<400> 366

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tcacttcctt	taagcctttg	tgactcttcc	tctgatgtca	gctttaagtc	ttgttctgga	180
ttgctgtttt	cagaagagat	ttttaacatc	tgtttttctt	tgtagtcaga	aagtaactgg	240
caaattacat	gatgatgact	agaaacagca	tactctctgg	ccgtctttcc	agatcttgag	300
aagatacatc	aacattttgc	tcaagtagag	ggctgactat	acttgctgat	ccacaacata	360
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tgattaaaaa	tttcaccact	tgtctgtttt	gtcctatgat	accaagtagc	agtgggtgtga	480
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atttatcttc	attgtagaca	gcatagtgta	gagtggtatt	tccatactca	tctggaatat	600
ttggatcagt	gocatgttcc	agcaacatta	acgcacattc	atcttctctg	cattgtacgg	660
cctttgtcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	cgtctgtcca	720
gcacgagttt	tactacttct	gaattcccat	tggcagaggg	cagatgtaga	gcagtctctc	780
tttgcttgtc	cctcttgttc	acatccgtgt	ccctgagcat	gacgatgaga	tcctttctgg	840
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acctggggtc catgaaggcg ctgtcatcgt agtctcccca agcgaccacg ttgctcttgc 960
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aatataatth tctctggag ccataatggat gaactatgaa ggaagaactc cccgaagaag 1440
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tgtgtttctt cccagtgat gcagcctcaa gttatcccga agctgccgca gcacacgggtg 1560
gctcctgaga aacaccccag ctcttcgggt ctaacacagg caagtcaata aatgtgataa 1620
tcacataaac agaattaaaa gcaaaagcac ataagcatct caacagacac agaaaaggca 1680
tttgacaaaa tccagcatcc ttgtatttat tgttgaggtt ctcagaggaa atgcttctaa 1740
cttttcccca tttagtatta tgttggtgtg gggcttggtc taggtggttt ttattacttt 1800
aagggtatgt ccttctatgc ctgttttgct gagggtttta attctcgtgc c 1851

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<210> 367

<211> 668

<212> DNA

<213> Homo sapien

<400> 367

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accrtataag agcagtgcct tggccattaa tttatctttc attrtagaca gctagtggya 180
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acgcacatth atcttcttg cattgtacgg cctgtcagta ttagacccaa aaacaaatta 300
catatcttag gaattcaaaa taacattcca cagctttcac caactagtta tatttaagg 360
agaaaaactca tttttatgcc atgtattgaa tctaaaccca cctcatgctg atatagttgg 420
ctactgcata cttttatcag agctgtcctc tttttgttgt caaggacatt aagttgacat 480
cgtctgtcca gcaggagttt tactacttct gaattcccat tggcagaggc cagatgtaga 540
gcagtcttat gagagtgaga agacttttta ggaaattgta gtgcactagc tacagccata 600
gcaatgatth atgtaactgc aaacactgaa tagcctgcta ttactctgcc ttcaaaaaaa 660
aaaaaaaaa 668

```

<210> 368

<211> 1512

<212> DNA

<213> Homo sapien

<400> 368

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gccttcatgg agcccaggta ccacgtccgt ggagaagatc tggacaagct ccacagagct 660
gcctggtggg gtaaagtccc cagaaaggat ctcatcgtca tgctcaggga cactgacgtg 720

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aacaagaagg	acaagcaaaa	gaggactgct	ctacatctgg	cctctgccaa	tgggaattca	780
gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
aggacagctc	tgayaaaagg	cgtacaatgc	caggaagatg	aatgtgcgtt	aatgttgctg	900
gaacatggca	ctgatccaaa	tattccagat	gagtatggaa	ataccactct	rcactaygct	960
rtctayaatg	aagataaaatt	aatggccaaa	gcactgctct	tataygggtgc	tgatatcgaa	1020
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taacattgac	gtgtgtaagg	gccagtcttc	cgtattttgga	agctcaagca	taacttgaat	1140
gaaaatattt	tgaaatgacc	taattatctm	agactttatt	ttaaatattg	ttattttcaa	1200
agaagcatta	gagggtagac	tttttttttt	ttaaatgcac	ttctggtaaa	tacttttggt	1260
gaaaacactg	aatttgtaaa	aggtaatact	tactattttt	caatttttcc	ctcctaggat	1320
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actccaagaa	aagttaaaaca	tgtttcagtg	aatagagatc	ctgctccttt	ggcaagttcc	1440
taaaaaacag	taatagatac	gaggtgatgc	gcctgtcagt	ggcaagggtt	aagatatttc	1500
tgatctcgctg	cc					1512

<210> 369

<211> 1853

<212> DNA

<213> Homo sapien

<400> 369

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ttcaaacaga	ttggaaaccc	ggagttacct	gctagttggt	gaaactggtt	ggtagacgcg	180
atctgttggc	tactactggc	ttctcctggc	tgttaaaagc	agatgggtgt	tgaggttgat	240
tccatgcggg	ctgctttctt	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
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ggagaccaag	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtgggtgcgc	420
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gccttcatgg	akccaggtta	ccacgtccrt	ggagaagatc	tggacaagct	ccacagagct	660
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gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
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gaacatggca	ctgatccaaa	tattccagat	gagtatggaa	ataccactct	rcactaygct	960
rtctayaatg	aagataaaatt	aatggccaaa	gcactgctct	tataygggtgc	tgatatcgaa	1020
tcaaaaaaca	agcatggcct	cacaccactg	ytacttggttr	tacatgagca	aaaacagcaa	1080
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ractgctctc	atacttgctg	tatgttggtg	atcagcaagt	atagtcagcc	ytctacttga	1200
gcaaaatrtr	gatgtatctt	ctcaagatct	ggaaaagcgg	ccagagagta	tgctgtttct	1260
agtcatcatc	atgtaatttg	ccagttactt	tctgactaca	aagaaaaaca	gatgttaaaa	1320
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caaaggctta	aaggaagtga	aaacagccag	ccagaggcat	ggaaactttt	aaatttaaac	1440
ttttggttta	atgttttttt	tttttgcctt	aataatatta	gatagtccca	aatgaaatwa	1500
cctatgagac	taggctttga	gaatcaatag	attctttttt	taagaatctt	ttggctagga	1560
gcggtgtctc	acgctgttaa	ttccagcacc	ttgagaggct	gaggtgggca	gatcacgaga	1620
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ggagaatggc	atgaaccggg	gaggtggagg	ttgcagttag	ccgagatccg	ccactacact	1800
ccagcctggg	tgacagagca	agactctgtc	tcaaaaaaaa	aaaaaaaaaa	aaa	1853

<210> 370

$\langle 400 \rangle$ 370

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<210> 371
<211> 1855
<212> DNA
<213> Homo sapien
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<400> 371

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<210> 372

<211> 1059

<212> DNA

<213> Homo sapien

<400> 372

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agagatcctg ctcctttggc aagttcctaa aaaacagtaa tagatacgag gtgatgcgcc 1020
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<210> 373
<211> 1155
<212> DNA
<213> Homo sapien

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gacaagctcc acagagctgc ctggtggggt aaagtcccca gaaaggatct catcgtcatg 480
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tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600
gtccttgaca acaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
tgtgcgttaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctotta 780
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<210> 374
<211> 2000
<212> DNA
<213> Homo sapien

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<400> 374
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ggcgcttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
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tgtgcgttaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
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gtcagccttc tacttgagca aaatattgat gtatcttctc aagatctatc tggacagacg 1020
gccagagagt atgctgtttc tagtcatcat catgtaattt gccagttact ttctgactac 1080

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aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaca	agactttaaag	1140
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<210> 375

<211> 2040

<212> DNA

<213> Homo sapien

<400> 375

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<210> 376
<211> 329
<212> PRT
<213> Homo sapien

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<400> 376
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Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu
20     25     30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
35     40     45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
50     55     60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
65     70     75     80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
85     90     95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
100    105    110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
115    120    125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
130    135    140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
145    150    155    160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
165    170    175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
180    185    190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
195    200    205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
210    215    220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
225    230    235    240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
245    250    255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
260    265    270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
275    280    285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
290    295    300
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
305    310    315    320
Ser Met Leu Phe Leu Val Ile Ile Met
325

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<210> 377

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	165	170
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu		175
	180	185
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr		190
	195	200
Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met		205
	210	215
Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn		220
225	230	235
Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys		240
	245	250
Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly		255
	260	265
Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val		270
	275	280
Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr		285
	290	295
Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile		300
305	310	315
Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu		320
	325	330
Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His Val		335
	340	345
Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile		350
	355	360
Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys		365
	370	375
Pro Arg Thr His Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser		380
385	390	395
Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys		400
	405	410
Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly		415
	420	425
Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys		430
	435	440
Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly		445
	450	455
Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys		460
465	470	475
Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys		480
	485	490
Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp		495
	500	505
Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu		510
	515	520
Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp		525
	530	535
Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln		540
545	550	555
Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val		560

1425 1430 1435 1440
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 1445 1450 1455
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser
 1460 1465 1470
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly
 1475 1480 1485
 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu
 1490 1495 1500
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys
 1505 1510 1515 1520
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser
 1525 1530 1535
 Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu
 1540 1545 1550
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser
 1555 1560 1565
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe
 1570 1575 1580
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe
 1585 1590 1595 1600
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly
 1605 1610 1615
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro
 1620 1625 1630
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln
 1635 1640 1645
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile
 1650 1655 1660
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser
 1665 1670 1675 1680
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn
 1685 1690 1695
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr
 1700 1705 1710
 Met Lys His Gln Ser Gln Leu
 1715

<210> 379

<211> 656

<212> PRT

<213> Homo sapien

<400> 379

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 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80

Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn	
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Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	
			100					105					110			
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe	
		115					120					125				
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His	
	130					135					140					
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met	
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Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala	
			165						170					175		
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu	
		180						185					190			
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	
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Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met	
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225					230					235					240	
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	
			245						250					255		
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly	
		260					265						270			
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val	
	275						280					285				
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr	
	290					295					300					
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile	
305					310					315					320	
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu	
			325						330					335		
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val	
			340					345					350			
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile	
	355					360						365				
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	
	370				375						380					
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys	
385					390					395					400	
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu	
			405						410					415		
Glu	Glu	Met	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn		
		420					425					430				
Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro	
	435						440					445				
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu	
	450					455					460					
Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu	
465					470					475					480	
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	
			485						490					495		
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu	
		500						505					510			

```
<210> 380
<211> 671
<212> PRT
<213> Homo sapien
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	<400>			380														
Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys			
1				5					10					15				
Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe			
			20					25					30					
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp			
		35					40					45						
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp			
	50					55					60							
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val			
65					70					75				80				
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn			
				85					90				95					
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser			
			100					105					110					
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe			
		115					120					125						
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His			
	130					135					140							
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met			
145					150					155				160				
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala			
				165					170					175				
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu			
			180					185					190					
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr			
		195					200					205						
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met			
	210					215					220							
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn			

660

665

670

<210> 381
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 381

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ggagaagcgt ctgctggggc aggaaggggt ttccctgccc tctcacctgt ccctcaccaa      60
ggtaacatgc ttcccctaag ggtatcccaa cccaggggcc tcaccatgac ctctgagggg      120
ccaatatccc aggagaagca ttggggaggt gggggcaggt gaaggacca ggactcacac      180
atcctggggc tccaaggcag aggagaggggt cctcaagaag gtcaggagga aaatccgtaa      240
caagcagtca g                                     251

```

<210> 382
 <211> 3279
 <212> DNA
 <213> Homo sapiens

<400> 382

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cttcctgcag ccccatgct ggtgaggggc acgggcagga acagtggacc caacatggaa      60
atgtctggagg gtgtcaggaa gtgatcgggc tctggggcag ggaggagggg tggggagtgt      120
cactgggagg ggacatcctg cagaaggtag gagtgagcaa acacccgctg caggggaggg      180
gagagccctg cggcacctgg gggagcagag ggagcagcac ctgcccaggc ctgggaggag      240
gggcctggag ggcgtgagga ggagcgaggg ggctgcatgg ctggagttag ggatcagggg      300
cagggcgcga gatggcctca cacaggggaag agagggcccc tectgcaggg cctcacctgg      360
gccacaggag gacactgctt ttctcttgag gagtgcaggag ctgtggatgg tgctggacag      420
aagaaggaca gggcctggct cagggtgtca gaggctgtcg ctggcttccc tttgggatca      480
gactgcaggg agggagggcg gcagggttgt ggggggagtg acgatgagga tgacctgggg      540
gtggctccag gccttgcccc tgccctgggc ctcacccagc ctccctcaca gtctcctggc      600
cctcagtctc tccccccac tccatectcc atctggcctc agtgggtcat tctgatcact      660
gaactgacca taccagcccc tgcccacggc cctccatggc tccccaatgc cctggagagg      720
ggacatctag tcagagagta gtctgaaga ggtggcctct gcgatgtgcc tgtgggggca      780
gcacctgca gatggtcccg gccctcatcc tgctgacctg tctgcaggga ctgtcctcct      840
ggaccttgcc ccttgtgcag gagctggacc ctgaagtccc ctcccatag gccaaagactg      900
gagccttggt cctctgtgtg gactccctgc ccatattctt gtgggagtgg gttctggaga      960
catttctgtc tgttccctgag agctgggaat tgctctcagt catctgcctg cgcggttctg      1020
agagatggag ttgcctaggc agttattggg gccaatcttt ctactgtgt ctctcctcct      1080
ttacccttag ggtgattctg ggggtccact tgtctgtaat ggtgtgcttc aaggtatcac      1140
atcatggggc cctgagccat gtgccctgcc tgaaaagcct gctgtgtaca ccaagtggtg      1200
gcattaccgg aagtggatca aggacaccat cgcagccaac ccctgagtgc ccctgtccca      1260
cccctacctc tagtaaattt aagtcacact caggttctgg catcacttgg cctttctgga      1320
tgctggacac ctgaagcttg gaactcacct ggccgaagct cgagcctcct gagtccctact      1380
gacctgtgct ttctgggtgt gagtccaggg ctgctaggaa aaggaatggg cagacacagg      1440
tgtatgccaa tgtttctgaa atgggtataa tttcgctctc tccttcggaa cactggctgt      1500
ctctgaagac ttctcgctca gtttcagtga ggacacacac aaagacgtgg gtgaccatgt      1560
tgtttgtggg gtgcagagat gggaggggtg gggccacccc tggaagagtg gacagtgaca      1620
caaggtggac actctctaca gatcactgag gataagctgg agccacaatg catgaggcac      1680
acacacagca aggttgacgc tgtaaacata gccacgctg tccctgggggc actgggaagc      1740
ctagataagg ccgtgagcag aaagaagggg aggatcctcc tatgttgttg aaggagggac      1800
tagggggaga aactgaaagc tgattaatta caggaggttt gttcaggctc cccaaaccac      1860
cgtcagatct gatgatttcc tagcaggact tacagaaata aagagctatc atgctgtggt      1920
ttattatggg ttgttacatt gataggatac atactgaaat cagcaaacaa aacagatgta      1980
tagattagag tgtggagaaa acagaggaaa acttgcaagt acgaagactg gcaacttggc      2040

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```
<210> 383
<211> 154
<212> PRT
<213> Homo sapiens
```

Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
5 10 15

His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
35 40 45

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
65 70 75 80

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
100 105 110

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
130 135 140

Ala Leu Glu Arg Gly His Leu Val Arg Glu
145 150

<210> 384
<211> 557
<212> DNA
<213> Homo sapiens

<400> 384
ggatcctcta gagcgccgc ctactactac taaattcgcg gccgcgtcga cgaagaagag 60
aaagatgtgt ttgtttttgg actctctgtg gtcccttcca atgctgtggg tttccaacca 120
ggggaagggt ccctttttgca ttgccaagtg ccataaccat gagcactact ctaccatggt 180
tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
acttaacctt gaaatggaaa gtcttgcaat cccatttgca ggatccgtct gtgcacatgc 300
ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
tccccaaagac acatcctaaa aggtgttgta atgggtgaaaa cgtcttccctt ctttattgcc 420
ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaaagt 480
tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540
aaaaaaaaaa aaaaaaa 557

<210> 385
<211> 337
<212> DNA
<213> Homo sapiens

<400> 385
ttcccagggt atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60
gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
tctcaaagcc atctgctgtc ttogagtacg gacacatcat cactcctgca ttgttgatca 180
aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240
tatcagacag gtccagtttc cgcaccaaca cctgctgggt ccctgtcgtg gtctggatct 300
ctttggccac caattccccc ttttccacat cccggca 337

<210> 386
<211> 300
<212> DNA
<213> Homo sapiens

<400> 386
gggcccgcta ccggcccagg cccgcctcgc cgagtccctc tccccgggtg cctgcccgca 60
gcccgcctcg cccagagggg gggcgcgggg ctgcctctac cggtggcggt ctgtaactca 120
gcgaccttgg cccgaaggct ctagcaagga cccaccgacc ccagccgcgg cggcggcggc 180
gcggactttg cccggtgtgt ggggcgggag ggactgctgt tccgcggacg ggagcgaag 240
atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387
<211> 537
<212> DNA
<213> Homo sapiens

<400> 387
gggccgagtc gggcaaccaag ggactctttg caggcttccct tcctcggatc atcaaggctg 60

```

ccccctctg  tgccatcatg  atcagcacct  atgagttcgg  caaaagcttc  ttccagaggc  120
tgaaccagga  ccggcttctg  ggcggtgaa  aggggcaagg  aggcaaggac  cccgtctctc  180
ccacggatgg  ggagagggca  ggaggagacc  cagccaagtg  ctttttcctc  agcactgagg  240
gagggggctt  gtttcccttc  cctcccggcg  acaagctcca  gggcagggct  gtccctctgg  300
gcgggcccagc  acttccctcag  acacaacttc  ttctgtctgc  tccagtcgtg  gggatcatca  360
cttaccacc  cccaagttc  aagaccaa  cttccagctg  cccccttcgt  gtttccctgt  420
gtttgtctgta  gctgggcatg  tctccaggaa  ccaagaagcc  ctcagcctgg  tgtagtctcc  480
ctgacccttg  ttaattcctt  aagtctaaag  atgatgaact  tcaaaaaaaa  aaaaaaa  537

```

```

<210> 388
<211> 520
<212> DNA
<213> Homo sapiens

```

```

<400> 388
aggataat  ttaaaccaat  caaatgaaaa  aaacaaacaa  acaaaaaagg  aaatgtcatg  60
tgaggttaaa  ccagtttgca  ttccccta  gtggaaaaag  taagaggact  actcagcact  120
gtttgaagat  tgccctctct  acagcttctg  agaattgtgt  tatttcactt  gccaaagtga  180
ggacccccctc  cccaacatgc  cccagcccac  cctaagcat  ggtcccttgt  caccaggcaa  240
ccaggaaaact  gctacttgtg  gacctacca  gagaccagga  gggtttggtt  agctcacagg  300
acttccccca  cccagaaga  ttagcatccc  atactagact  catactcaac  tcaactaggc  360
tcatactcaa  ttgatggtta  ttagacaatt  ccatttcttt  ctggttatta  taaacagaaa  420
atctttcctc  ttctcattac  cagtaaaggc  tcttggtatc  tttctgttgg  aatgatttct  480
atgaacttgt  cttattttta  tgggtgggtt  ttttctggt  520

```

```

<210> 389
<211> 365
<212> DNA
<213> Homo sapiens

```

```

<400> 389
cgttgcccc  gtttgacaga  aggaaaggcg  gagcttattc  aaagtctaga  gggagtggag  60
gagttaaagg  tggatttcag  atctgcctgg  ttccagccgc  agtgtgcct  ctgctcccc  120
aacgactttc  caaataatct  caccagcgcc  ttccagctca  ggcgtcctag  aagcgtcttg  180
aagcctatgg  ccagctgtct  ttgtgttccc  tctcaccgc  ctgtcctcac  agctgagact  240
cccaggaaac  cttcagacta  ctttctctg  cttcagcaa  ggggcgttgc  ccacattctc  300
tgagggtcag  tggaagaacc  tagactccca  ttgctagagg  tagaaagggg  aagggtgctg  360
gggag  365

```

```

<210> 390
<211> 221
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(221)
<223> n = A,T,C or G

```

```

<400> 390
tgctctcca  tcttgcccc  gacttctctg  tcaggaaagt  ggggatggac  cccatctgca  60
tacacgntt  ctcatgggtg  tggaacatct  ctgcttgccg  ttccaggaag  gcctctggct  120
gctctangag  tctgancnga  ntcgttgccc  cantntgaca  naaggaaagg  cggagcttat  180
tcaaagtcta  gagggagtgg  aggagtttaag  gctggatttc  a  221

```

<210> 391
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(325)
 <223> n = A,T,C or G

<400> 391
 tggagcaggt cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60
 ctctcgcgcc cagcctggag ctgctcctgg catctacca caatcagncg aggcgagcag 120
 tagccagggc actgctgcc aacagccagtc cnnataccat catgtnaccc ggtgngctct 180
 naanttingat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240
 cactgcccag gaatcctaca gccagtaccc tgtcccgacg tctctaccta ccagtacgat 300
 gagacctccg gctactacta tgacc 325

<210> 392
 <211> 277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(277)
 <223> n = A,T,C or G

<400> 392
 atattgttta actccttccct ttatatcttt taacattttc atggngaaaag gttcacatct 60
 agtctcactt nggonagn gn ctcctacttg agtctcttcc cgggectggn ccagtnghaa 120
 antaccanga accgncatgn cttaanaacn nectggtttn tgggttnntc aatgactgca 180
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcg 240
 ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277

<210> 393
 <211> 566
 <212> DNA
 <213> Homo sapiens

<400> 393
 actagtccag tgtggtggaa ttccgcccgc cgtcgacgga caggtcagct gtctggctca 60
 gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga ttaaattcag cctaaacgtt 120
 ttgcccggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcccga 180
 gagaaggctct agtttgtcca tcagcattat catgatata ggactgggta cttggttaag 240
 gaggggtcta ggagatctgt cctttttaga gacaccttac ttataatgaa gtatttggga 300
 ggggtggtttt caaaagtaga aatgtcctgt attccgatga tcatcctgta aacattttat 360
 catttattaa tcatccctgc ctgtgtctat tattatatc atatctctac gctggaaact 420
 ttctgcctca atgtttactg tgcctttgtt tttgctagtt tgtgttgttg aaaaaaaaaa 480
 cattctctgc ctgagtttta atttttgtcc aaagttatatt taatctatac aattaaaaagc 540
 ttttgctat caaaaaaaaa aaaaaa 566

<210> 394

<211> 384
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(384)
 <223> n = A,T,C or G

<400> 394
 gaacatacat gtcccgccac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
 tgcaaattng gaccgggccca aggctggact gctggagcgt gtgaaggagc tacaggccna 120
 gcaggaggac cgggctttta ggagttttta gctgagtgtc actgtagacc ccaaatacca 180
 tccaagatt atcggggagaa agggggcagt aattacccaa atccggttg agcatgacgt 240
 gaacatccag ttctctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
 agggtagcaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
 tgagcagatg gtttctgagg acgt 384

<210> 395
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 395
 ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60
 tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
 tatcagaggt ttcattcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
 attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
 ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
 caagttctct ttggaaagcc tgggcatctc ctactacag acctctgacc atgggacggt 360
 gcagcctggt gagaccatcc aatcccaaat aaaatgcac 399

<210> 396
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(403)
 <223> n = A,T,C or G

<400> 396
 tggagttntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctcacagaaa 60
 gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
 agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
 actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
 taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
 gtttagggga gggagtggag gataaaagaa ggaaaaaag aagagtgaga aaacctattt 360
 atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403

<210> 397
 <211> 100
 <212> DNA


```

tgagtctctt ttttccacgt ttaagggggc atggcaggac ttagagttgc gagttaagac 240
tgcagagggc tagagaatta tttcatacag gctttgaggc caccatgtc acttatcccg 300
tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360
gttggcccca taattctggg cctttgttgt ttgttttaac tacttgggca tcccaggaag 420
ctttccagtg atctctacc atgggcccc ctctgggat caagcccctc ccaggccctg 480
tccccagccc ctctgcccc agcccacccg cttgccttgg tgctcagccc tcccattggg 540
agcaggtt 548

```

```

<210> 401
<211> 355
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G

```

```

<400> 401
actgtttcca tgttatgttt ctacacattg ctacctcagt gctcctggaa acttagcttt 60
tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgcc atgggtggcg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggt 300
cccttttgc tttgccaagt ccataaccat gagcactact ctaccatggn tctgc 355

```

```

<210> 402
<211> 407
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(407)
<223> n = A,T,C or G

```

```

<400> 402
atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatat ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag cagggtgttg actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaagggtggc ctgacctttg ataaatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa ttgctgagg 300
ttgtggagct tctccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407

```

```

<210> 403
<211> 303
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G

```

```

<400> 403
cagtatttat agcnaactg aaaagctagt agcaggcaag tctcaaatcc aggcaccaaa 60
tcctaagcaa gagccatggc atggtgaaaa tgcaaaagga gagtctggcc aatctacaaa 120
tagagaacaa gacctactca gtcatagaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
tcttaacaac gaccgaaacc cattattttac ataaacctcc attcggtaac catgttgaaa 300
gga 303

```

```

<210> 404
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<400> 404
aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaaag taaaggaaaa 60
attgttaatg cactcattta cctttacatg gtgaaagtgc tctcttgatc ctacaaacag 120
acattttcca ctcggtgttc catagttggt aagtgtatca gatgtgttgg gcatgtgaat 180
ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt 225

```

```

<210> 405
<211> 334
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(334)
<223> n = A,T,C or G

```

```

<400> 405
gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgaggggtg tctggaggac 60
ttcaatacac ctccccccat agtgaatcag ctccaggagg gtccagtccc tctccttact 120
tcatccccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180
ttccagtgct ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtgt 240
ctgggtgcgtg tgtgcctcca gcttctgctc agtgcttcat ggacagtgtc cagcccatgt 300
cactctccac tctctcanng tggatcccac ccct 334

```

```

<210> 406
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

```

```

<400> 406
tttcatacct aatgaggagg ttganatnac atnnaaccag gaaatgcatg gatctcaang 60
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120
acnaaacaca aatttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant 216

```

<210> 407
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 407
 gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc ctigactcat 60
 gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
 gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
 ccagagggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
 ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
 tgccagacag gagaaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360
 tgggagttcc agaaaaagtt aaaacagaca atggggccagg ttctgtagta aag 413

<210> 408
 <211> 183
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(183)
 <223> n = A,T,C or G

<400> 408
 ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
 tnccttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
 cattatcctt ccagtattcn ccttctnttt tattttactcc ttcttggtta cccatgtact 180
 ntt 183

<210> 409
 <211> 250
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 409
 cccacgcatg ataagctctt tatttctgta agtcttgcta ggaaatcatc aaatctgacg 60
 gtggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
 gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
 gcttccagtg gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
 ggccntatgc 250

<210> 410
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(306)

<223> n = A,T,C or G

<400> 410

```

ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatTTTgc aggatccgtc tgtgcacatg cctctgtaga gagcagcatt 120
cccaggggacc ttggaaacag ttggcactgt aagggtgcttg ctccccaaga cacatcctaa 180
aagggtgttg aatgggtgaaa accgcttccT tctttattgc cccttcttat ttatgtgaac 240
nactggttgg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tcntgc                                           306

```

<210> 411

<211> 261

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(261)

<223> n = A,T,C or G

<400> 411

```

agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa gngaggcaa a                                           261

```

<210> 412

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(241)

<223> n = A,T,C or G

<400> 412

```

gttcaatgtt acctgacatt totacaacac ccactcacc gatgtattcg ttgcccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgccagc aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tcactgggta cattgaattc caaaactacc cangcaatta ccagccaac 240
a                                           241

```

<210> 413

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(231)

<223> n = A,T,C or G

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtag ctctctcttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tcctcatttg gaacctaaaa actctcttct tcctgggtct gagggctcca 180
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t 231

<210> 414
<211> 234
<212> DNA
<213> Homo sapiens

<400> 414
actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60
gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120
gtgagccaag gagggagggt cttccttttg catgggatgg ggatgaagta aggagaggga 180
ctggaccccc tggaagctga ttcactatgg ggggaggtgt attgaagtcc tcca 234

<210> 415
<211> 217
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(217)
<223> n = A,T,C or G

<400> 415
gcataggatt aagactgagt atcttttcta cattctttta acttttctaag gggcacttct 60
caaaacacag accaggtagc aaatctccac tgctctaagg ntctcaccac cactttctca 120
cacctagcaa tagtagaatt cagtctact tctgaggcca gaagaatggg tcagaaaaat 180
antggattat aaaaaataac aattaagaaa aataatc 217

<210> 416
<211> 213
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(213)
<223> n = A,T,C or G

<400> 416
atgcatatnt aaagganact gcctcgcttt tagaagacat ctggnctgct ctctgcatga 60
ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120
cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180
atattggaac agatggagtc tctactacaa aag 213

<210> 417
<211> 303
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 417
 nagtcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
 gtgggaaagg ctttactctg agttcaaate ttcaagccca tcagagagtc cacactggag 120
 agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
 ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240
 tcantcaaag ttcgatatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
 agt 303

<210> 418
 <211> 328
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 418
 tttttggcgg tgggtggggca gggacggggac angagtctca ctctgttgcc caggctggag 60
 tgcacaggca tgatctcggc tcactacaac cctgcctcc catgtccaag cgattcttgt 120
 gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
 gtattttttag tagagacagg gtttcacat gttggccagg ctgggtctcaa actcctnacc 240
 tcagnggtca ggctgggtct aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
 aaagtgtctan gattacaggc cgtgagcc 328

<210> 419
 <211> 389
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(389)
 <223> n = A,T,C or G

<400> 419
 cctcctcaag acggcctgtg gtcgcgcctcc cggcaaccaa gaagcctgca gtgccatattg 60
 acccctgagc catggactgg agcctgaaag gcagcgtaca cctgctcct gatcttgctg 120
 cttgtttcct ctctgtgggt ccattcatag cacagttgtt gcactgaggc ttgtgcaggc 180
 cgagcaaggc caagctgggt caaagagcaa ccagtcaact ctgccacggg gtgccaggca 240
 ccggttctcc agccaccaac ctcaactcgt cccgcaaagt gcacatcagt tcttctaccc 300
 taaaggtagg accaaagggc atctgctttt ctgaagtcct ctgctctatc agccatcacg 360
 tggcagccac tcnngctgtg tcgacgcgg 389

<210> 420
 <211> 408
 <212> DNA

<213> Homo sapiens

<400> 420

```
gttcctccta actcctgcca gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgg gtttcggcat ggagaccgaa 180
gtccattga cacctttccc actgacccca taaaggaatc ctcattggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagccccg 408
```

<210> 421

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(352)

<223> n = A,T,C or G

<400> 421

```
gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacagggtct tttttgggtc cttcttctcc accacnatac attgcagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacagggt tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcatgtc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttctc gg 352
```

<210> 422

<211> 337

<212> DNA

<213> Homo sapiens

<400> 422

```
atgccaccat gctggcaatg cagcggggcg tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gcgatagcaa ggtgcggcg atcgggcg cgtcaatcct ggccaaggct agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcgggcgg cataaagggt 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337
```

<210> 423

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(310)

<223> n = A,T,C or G

<400> 423

```
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
```

```

aggagaatga ggccctggcct gggagccctg tgcctactan aagcncatta gattatccat 120
tcactgacag aacagggtctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacaggtgt anaaacaagg 240
gtgcaacatg aaatttctgt ttogtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta                                     310

```

```

<210> 424
<211> 370
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(370)
<223> n = A,T,C or G

```

```

<400> 424
gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
cactgacaga acagggtctt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180
ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240
ggttgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
cacgaagggt gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
tccgtcgacg                                     370

```

```

<210> 425
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

```

```

<400> 425
aattgctatn ntttattttg ccaactcaaaa taattaccaa aaaaaaaaaa tnttaaatga 60
taacaacnca acatcaagggn aaananaaca ggaatggntg acntntgcata aatnggccga 120
anattatcca ttatnttaag ggttgacttc aggntacagc acacagacaa acatgcccag 180
gaggntntca ggaccgctcg atgtnttntg aggagg                                     216

```

```

<210> 426
<211> 596
<212> DNA
<213> Homo sapiens

```

```

<400> 426
cttccagtga ggataaccct gttgccccgg gccgagggtc tccattaggc tctgattgat 60
tggcagtcag tgatggaagg gtgttctgat cattccgact gccccaaggg tcgctggcca 120
gctctctgtt ttgotgagtt ggcagtagga cctaatttgt taattaagag tagatggtga 180
gctgtccttg tatttttgatt aacctaatgg ccttcccagc acgactcgga ttcagctgga 240
gacatcacgg caacttttaa tgaaatgatt tgaagggcc a ttaagaggca cttcccgtta 300
ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420

```



```
<210> 427
<211> 107
<212> DNA
<213> Homo sapiens
```

```
<400> 427
gaagaattca agttaggttt attcaaaggg cttacngaga atcctanacc caggncocag 60
cccgggagca qccttanaga gctcctgttt gactgcccg ctcagng 107
```

```
<220>
<221> misc_feature
<222> (1)...(38)
<223> n = A,T,C or G
```

```
<210> 429
<211> 544
<212> DNA
<213> Homo sapiens
```

```
<210> 430
<211> 507
<212> DNA
<213> Homo sapiens
```

 $\langle 220 \rangle$


```
<220>  
<221> misc_feature  
<222> (1)...(281)  
<223> n = A,T,C or G
```

```
<210> 434
<211> 484
<212> DNA
<213> Homo sapiens
```

```
<210> 435
<211> 424
<212> DNA
<213> Homo sapiens
```

```
<210> 436
<211> 667
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
```

<222> (1)...(667)

<223> n = A,T,C or G

<400> 436

```
accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60
tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataaggggtgc 120
agcctcttct ggaattcctc tgattttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacaggggt 300
gccaggtttg tcatagcact catcaaagtc cgggtcaacgt ctgtgcttcg aatataaacc 360
tgttcatgtt tataggactc attcaagaat tttctatata tctttcttat atactctcca 420
agttcataat gctgctccat gccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaaggtg tcaatgggac ttcggtctcc atgccgaaac 540
accaaagtca caaacttcaa ctcttgggt agtacacttc ggtctagcca gaaaaaaagc 600
agaaacaaga agccaaggct aaggcttgct gcctgcccag gaggaggggt gcagctctca 660
tgttgag 667
```

<210> 437

<211> 693

<212> DNA

<213> Homo sapiens

<400> 437

```
ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaaag ctggattggc aactaggac tctaccatac cgggttttgt 120
taaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttttcagatc 180
ataaaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
aggtactcct ctattttcac ccctcttgct tctactctct ggcagtcaga cctgtgggag 300
gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
catttctcca ggttacccta ggtgtcacta ttggggggac agccagcatc tttagctttc 420
atttgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acacctaaact gctgttgctc ctgagggtgg gaaagacaga tatagagctt acagtattta 540
tcctattttc aggcactgag ggctgtgggg taccttgtgg tgccaaaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
ctgcatcatg tgctctcttg gctgaaaatg acc 693
```

<210> 438

<211> 360

<212> DNA

<213> Homo sapiens

<400> 438

```
ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgagggag ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaag acaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctgggtg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360
```

<210> 439

<211> 431

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 439
 gttcctnnta actcctgcc aaaaacagctc tcttcaacat gagagctgca cccctcctcc 60
 tggccagggc agcaagcctt agccttggt tcttggttct gctttttttc tggctagacc 120
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
 gtcccatga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
 gatatagaaa attcctgaat gaggcctata aacatgaaca ggtttatatt cgaagcacag 360
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
 aatttagtag t 431

<210> 440
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 440
 agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
 ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
 tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
 aggaaggaag gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
 cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
 actggaaaac tgctactatc tgtttttata ttctgtttaa aatatatgag gctacagaac 360
 taaaaattaa aacctctttg tgtcccttgg tcttgaaca tttatgttcc ttttaaagaa 420
 acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480
 tatatatatc atagcaaata agtcatctga tgagaacaag cta 523

<210> 441
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 441
 gttcctccta actcctgcc aaaaacagctc tcttcaacat gagagctgca cccctcctcc 60
 tggccagggc agcaagcctt agccttggt tcttggttct gctttttttc tggctagacc 120
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
 gtcccatga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
 gatatagaaa attcctgaat gaggcctata aacatgaaca ggtttatatt cgaagcacag 360
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
 aatttagtag 430

<210> 442
 <211> 362
 <212> DNA
 <213> Homo sapiens

<400> 442
 ctaaggaatt agtaggttc ccatcacttg tttggagtgt gctattctaa aagattttga 60
 tttcctggaa tgacaattat attttaactt tgggtggggga aagagttata ggaccacagt 120

```

cttcacttct gatacttgta aattaatctt ttattgcact tgttttgacc attaatgctat 180
atgttttagaa atgggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc 362

```

```

<210> 443
<211> 624
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(624)
<223> n = A,T,C or G

```

```

<400> 443
tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
ttgaaagaat taaattcaga ggaggggaga gaaagagtag tcagtaggga ctgagcacta 120
aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
tgctggctag tactccgggc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaatcttg cttcctgttt 300
tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaatgaac 360
taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtac 420
atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgcta 480
agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaga 540
ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tatttaaact 600
ttgtccctat ctgctaaaca gatac 624

```

```

<210> 444
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(425)
<223> n = A,T,C or G

```

```

<400> 444
gcacatcatt nntcttgcat tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
ttcattgcta tagcataaca caaaatttgc ataagtgggt gtcagcaaat ccttgaatgc 180
tgcttaatgt gagagggttg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcatcctgt gaagagccaa 360
ggaggcacca gggcataagt gagtagactt atgggtcgacg cggccgcgaa tttagtagta 420
gtaga 425

```

```

<210> 445
<211> 414
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n = A,T,C or G

<400> 445
 catgtttatg ntttttgatt actttgggca cctagtgttt ctaaatacgtc tatcattcctt 60
 ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatcctt caagtctttg 120
 tgaaattcctt tgcattgtggc agattattgg atgtagtctt ctttaactag catataaatc 180
 tgggtgtgttt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240
 aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300
 ggatttttat aatcctactc acaaatgact aggccttctc tcttgatatt tgaagcagt 360
 tgggtgctgg attgataaaa aaaaaaaaaa tgcagcgaggc cgcgaattta gtag 414

<210> 446
 <211> 631
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(631)
 <223> n = A,T,C or G

<400> 446
 acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60
 tctgcatgca tgggaagtgt gaggattcta tcaatatgca ggagccatct tgcagggtgtg 120
 atgctggtta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180
 ccggtcctgt acgatttcag tatgtcttaa tgcagctgt gattggaaca attcagattg 240
 ctgtcatctg tgtggtggtc ctctgcatca caagggccaa actttaggta atagcattgg 300
 actgagattt gtaaaacttc caacottcca ggaaatgcc cagaagcaac agaattcaca 360
 gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420
 taatctaaag ggagcatgtt tcacagtggc tggactaccg agagcttgga ctacacaata 480
 cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccctg catttggtgtg 540
 aatctacacc aatgaaaaca tgtactacag ctatatattga ttatgtatgg atatatttga 600
 aatagtatac attgtcttga tgttttttct g 631

<210> 447
 <211> 585
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(585)
 <223> n = A,T,C or G

<400> 447
 ccttgaggaaa antntcacaa tataaagggt cgtagacttt actccaaatt ccaaaaagggt 60
 cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120
 gcctcttctg gaattcctct gatttcaaag tctcactctc aagttcttga aaacgagggc 180
 agttcctgaa aggaggtat agcaactgat cttcagaaag aggaactgtg tgcaccggga 240
 tgggctgcca gagtaggata ggattccaga tgctgacacc ttctggggga aacagggctg 300
 ccagggttgt catagcactc atcaaagtcc ggtcaacgtc tgtgcttcca atataaacct 360

```
gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420
gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaaggtgt caatgggact tcggtctcca tgccgaaaca 540
ccaaagtcac aaacttcaac tccttggcta gtacacttcg gtcta 585
```

```
<210> 448
<211> 93
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(93)
<223> n = A,T,C or G
```

```
<400> 448
tgctcgtggg tcattctgan nnccgaactg acctgcccag ccctgccgan gggccnccat 60
ggctccctag tgccctggag agganggggc tag 93
```

```
<210> 449
<211> 706
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G
```

```
<400> 449
ccaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60
ttctgancac cgaactgacc atgccagccc tgccgatggt cctccatggc tccctagtgc 120
cctggagagg aggtgtctag tcagagagta gtcttggaag gtggcctctg ngaggagcca 180
cggggacagc atcctgcaga tggtcgggcg cgtcccatc gccattcagg ctgcgcaact 240
gttgggaagg gcgatcgggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300
gtgctgcaag gcgattaagt tgggtaacgc caggggtttc ccagtcncga cgttgtaaaa 360
cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcattgcacg 420
cgtagcgaag cttggatcct ctagagcggc cgectactac tactaaattc gcggcccgct 480
cgacgtggga tccncaactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
aacagggtga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncacca 660
gcatggatga cagagtgaaa ctccatctta aaaaaaaaaa aaaaaa 706
```

```
<210> 450
<211> 493
<212> DNA
<213> Homo sapiens
```

```
<400> 450
gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
acagttttaa aaggtaaaac aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180
agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
caagtcagggt agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300
```



```
<210> 451
<211> 501
<212> DNA
<213> Homo sapiens
```

<400>	451						
gggcgcgctcc	catttgcgc	tcaggctg	caactgtt	gaaggcgat	cgggtgcgggc	60	
ctcttcgcta	ttacgccagc	tggcgaaagg	gggatgtgct	gcaaggcgat	taagttgggt	120	
aacgccaggg	ttttcccagt	cncgacgtt	taaaacgacg	gccagtgaat	tgaatttagg	180	
tgacnctata	gaagagctat	gacgtcgcat	gcacgcgtac	gtaagcttgg	atcctctaga	240	
gcggccgcct	actactacta	aattcgcggc	cgcgtcgacg	tgggatccnc	actgagagag	300	
tggagagtga	catgtgtgtg	acnctgtcca	tgaagcactg	agcagaagct	ggaggcacaa	360	
cgcncccagac	actcacagct	actcaggagg	ctgagaacag	gttgaacctg	ggagggtggag	420	
gttgcaatga	gctgagatca	ggcncctgcn	cccagcatg	gatgacagag	tgaaactcca	480	
tcttaaaaaa	aaaaaaaaaa	a				501	

```
<220>
<221> misc_feature
<222> (1)...(51)
<223> n = A,T,C or G
```

```
<210> 453
<211> 317
<212> DNA
<213> Homo sapiens
```

```
<400> 453
tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60
acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatggttc tcagaacct 120
ttcaccnaa cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180
taacaaaccc tgctccaatc tgtcacataa aagtcctgtga cttgaagttt antcaqcacc 240
```

```

cccaccaaac tttatTTTTc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
tacctatgtc tttatta                                     317

```

```

<210> 454
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<400> 454
ttcgaggtag aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
taagccacgc cagctctttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
ccttcctttt tcagtgttcc aaagctcctc acaatttcat gaacaacagc t          231

```

```

<210> 455
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<400> 455
taccaaagag ggcataataa tcagtctcac agtaggggttc accatcctcc aagtgaaaaa 60
cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagtgt 120
gtttcaacgc attgatgact tctccaagga tcttcctttg gcatcgacca cattcagggg 180
caaagaattt ctcatagcac agtcacaaat acagggtctc tttctcctct a          231

```

```

<210> 456
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<400> 456
ttggcaggta ccottacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
ttccattcag tattatcggt attattcttg gagaaacctt gtctgtttac tgtaaccttt 120
tgactcaaaa ttcttttata aggaataact acatagccac tatttacaaa gccattggaa 180
cctttttatt tgggtgcagct gctagtcagt ccttgactga cattgccaag t          231

```

```

<210> 457
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

```

```

<400> 457
cgaggtagccc aggggtctga aaatctctnn tttantagtc gatagcaaaa ttgttcatca 60
gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catacagttt 120
tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttctctt gaggtgtcgc tggcttttgt g          231

```

```

<210> 458
<211> 231

```

<212> DNA
<213> Homo sapiens

<400> 458
aggtctgggt cccccactt ccaactccct ctactctctc taggactggg ctgggccaaag 60
agaagagggg tggttaggga agccgttgag acctgaagcc ccaccctcta ccttccttca 120
acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180
ggcctctgggt taggcatttt gggggggccag accccaggag aagaagattc t 231

<210> 459
<211> 231
<212> DNA
<213> Homo sapiens

<400> 459
ggtaccgagg ctgcgtgaca cagagaaacc ccaacgcgag gaaaggaatg gccagccaca 60
ccttcgagaa acctgtgggt gcccaccagt cctaacggga caggacagag agacagagca 120
gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180
actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

<210> 460
<211> 231
<212> DNA
<213> Homo sapiens

<400> 460
gcaggtataa catgctgcaa caacagatgt gactaggaac ggccggtgac atggggagggg 60
cctatcaccc tattcttggg ggctgcttct tcacagtgat catgaagcct agcagcaaatt 120
ccacctccc cacacgcaca cgccagcct ggagcccaca gaagggtcct cctgcagcca 180
gtggagcttg gtccagcctc cagtcacccc ctaccaggct taaggataga a 231

<210> 461
<211> 231
<212> DNA
<213> Homo sapiens

<400> 461
cgaggtttga gaagctctaa tgtgcagggg agccgagaag caggcggcct agggaggggtc 60
gcgtgtgctc cagaagagtg tgtgcatgcc agaggggaaa caggcgcttg tgtgtccttg 120
gtggggttca gtgaggagtg ggaaattggg tcagcagaac caagccgttg ggtgaataag 180
agggggattc catggcactg atagagccct atagtcttcag agctgggaat t 231

<210> 462
<211> 231
<212> DNA
<213> Homo sapiens

<400> 462
aggtaccctc attgtagcca tgggaaaatt gatgttcagt ggggatcagt gaattaaatg 60
gggtcatgca agtataaaaa ttaaaaaaaaaa aagacttcat gcccaatctc atatgatgtg 120
gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180
tctagaggag gtattttaatt tcttctcact catccagtgt tgtatttagg a 231

<210> 463

<211> 231
 <212> DNA
 <213> Homo sapiens

<400> 463
 tactccagcc tgggtgacaga gcgagaccct atcaccgccc cccaccccac caaaaaaaaa 60
 actgagtaga cagggtgtcct ctgggcatgg taagtcttaa gtccctccc agatctgtga 120
 catttgacag gtgtcttttc ctctggacct cgggtgtccc atctgagtga gaaaaggcag 180
 tggggagggtg gatcttccag tcgaagcggg atagaagccc gtgtgaaaag c 231

<210> 464
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 464
 gtactcctaag attttatcta agttgccttt tctgggtggg aaagtttaac cttagtgtact 60
 aaggacatca catatgaaga atgtttaagt tggagggtggc aacgtgaatt gcaaacaggg 120
 cctgtctcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180
 ggtgccagcg caccagctag atgctctgta acttctaggc cccattttcc c 231

<210> 465
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 465
 catgttggtg tagctgtggt aatgctggct gcactctcaga cagggttaac ttcagctcct 60
 gtggcaaatt agcaacaaat tctgacatca tatttatggg ttctgtatct ttgttgatga 120
 aggatggcac aatttttgct tgtgttcata atatactcag attagttcag ctccatcaga 180
 taaactggag acatgcagga cattagggta gtgttgtagc tctggtaatg a 231

<210> 466
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 466
 caggtagctc tttccattgg atactgtgct agcaagcatg ctctccgggg tttttttaat 60
 ggcttctgaa cagaacttgc cacataccca ggtataatag tttctaacat ttgccagga 120
 cctgtgcaat caaatattgt ggagaattcc ctagctggag aagtcacaaa gactataggc 180
 aataatggag accagtccca caagatgaca accagtcgtt gtgtgaggct g 231

<210> 467
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 467
 gtacaccctg gcacagtcca atctgaactg gttcggcact catctttcat gagatggatg 60
 tggtagcttt tctccttttt catcaagact cctcagcagg gagcccagac cagcctgcac 120
 tgtgccttaa cagaagggtct tgagattcta agtgggaatc atttcagtga ctgtcatgtg 180
 gcatgggtct ctgcccgaagc tcgtaatgag actatagcaa ggcggctgtg ggacgtcagt 240
 tgtgacctgc tgggcctccc aatagactaa caggcagtgc cagttggacc caagagaaga 300

311

```
<210> 468
<211> 3112
<212> DNA
<213> Homo sapiens
```

<400>	468					
cattgtgttg	ggagaaaaac	agaggggaga	tttgtgtggc	tgcagccgag	ggagaccagg	60
aagatctgca	tgggtggaag	gacctgatga	tacagagttt	gataggagac	aattaaaggc	120
tggaaggcac	tggatgcctg	atgatgaagt	ggactttcaa	actggggcac	tactgaaacg	180
atgggatggc	cagagacaca	ggagatgagt	tggagcaagc	tcaataacaa	agtggttcaa	240
cgaggacttg	gaattgcatg	gagctggagc	tgaagtttag	cccaattgtt	tactagtttga	300
gtgaatgtgg	atgattggat	gatcatttct	catctctgag	cctcaggttc	cccatccata	360
aaatgggata	cacagtatga	tctataaagt	gggatatagt	atgatctact	tactggggtt	420
atttgaagga	tgaattgaga	taattttatt	caggtgccta	gaacaatgcc	cagattagta	480
catttggttg	aactgagaaa	tggcataaca	ccaaatttaa	tatatgtcag	atgttactat	540
gattatcatt	caatctcata	gttttgtcat	ggcccaattt	atcctcactt	gtgcctcaac	600
aaattgaact	gttaacaaag	gaatctctgg	tcctgggtaa	tggctgagca	ccactgagca	660
tttccattcc	agttggcttc	ttgggtttgc	tagctgcctc	actagtcctc	ttaaataaat	720
gaagttttta	catttctcca	gtgatttttt	tatctcacct	ttgaagatac	tatgtttatgt	780
gattaaataa	agaactttgag	aagaacaggt	ttcattaaac	ataaaataac	tgtagacgca	840
aaatttctgg	atgggcaata	cttatgtttca	caggaaatgc	tttaaaatat	gcagagata	900
attaaatggc	aatggacaaa	gtgaaaaact	tagacttttt	tttttttttt	ggaagtatct	960
ggatgttcct	tagtcactta	aaggagaact	gaaaaatagc	agtgagttcc	acataatcca	1020
acctgtgaga	ttaaggctct	ttgtggggaa	ggacaaagat	ctgtaaattt	acagtttccct	1080
tccaaagcca	acgtcgaatt	ttgaaacata	tcaaagctct	tcttcaagac	aaataatcta	1140
tagtacatct	ttcttatggg	atgcacttat	gaaaaatggg	ggctgtcaac	atctagtcac	1200
tttagctctc	aaaatggttc	attttaagag	aaagtttttag	aatctcatat	ttattcctgt	1260
ggaaggacag	cattgtggct	tggactttat	aaggtcttta	ttcaactaaa	taggtgagaa	1320
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aacatcacta	gaaacagcaa	gatgacaata	taatgtctaa	gtagtacat	gtttttgcac	1440
atttccagcc	cctttaaata	tccacacaca	caggaagcac	aaaaggaagc	acagagatcc	1500
ctggggagaaa	tgcccgcccg	ccatcttggg	tcctcgatga	gcctcgccct	gtgcctgggtc	1560
ccgcttgtga	gggaaggaca	ttagaaaatg	aattgatgtg	ttccttaaag	gatgggcagg	1620
aaaacagatc	ctggttggtga	tatttatttg	aacgggatta	cagatttgaa	atgaagtcac	1680
aaagtgcagca	ttaccaatga	gaggaaaaaca	cacgagaaaaa	tcttgatggc	ttcacaagac	1740
atgcaacaaa	caaaatggaa	tactgtgatg	acatgaggca	gccaaagctg	ggaggagata	1800
accacggggc	agagggtcag	gattctggcc	ctgctgccta	aactgtgcgt	tcataaccaa	1860
atcatttcat	atttctaacc	ctcaaaacaa	agctgttgta	atatctgac	tctacggttc	1920
cttctggggc	caacattctc	catatatcca	gccacactca	tttttaatat	ttagttccca	1980
gatctgtact	gtgacctttc	tacactgtag	aataacatta	ctcattttgt	tcaaagacc	2040
ttcgtgttgc	tgccataatat	gtagctgact	gtttttccta	aggagtgttc	tggcccagg	2100
gatctgtgaa	caggctggga	agcatctcaa	gatctttcca	gggttatact	tactagcaca	2160
cagcatgatc	attacggagt	gaattatcta	atcaacatca	tcctcagtg	ctttgcccat	2220
actgaaattc	atttcccact	tttgtgccca	ttctcaagac	ctcaaaatgt	cattccatta	2280
atatcacagg	attaactttt	ttttttaacc	tggagaagatt	caatgttaca	tgcagctatg	2340
ggaatttaat	tacatatttt	gttttccagt	gcaaagatga	ctaagtcctt	tatccctccc	2400
ctttgtttga	ttttttttcc	agtataaagt	taaaatgctt	agccttgtag	tgaggctgta	2460
tacagccaca	gcctctcccc	atccctccag	ccttatctgt	catcaccata	aaccctccc	2520
atgcacctaa	acaaaatcta	acttgaata	ccttgaacat	gtcaggcata	cattattcct	2580
tctgcctgag	aagctcttcc	ttgtctotta	aatctagaat	gatgtaaagt	tttgaataag	2640
ttgactatct	tacttcatgc	aaagaaggga	cacatatgag	attcatcatc	acatgagaca	2700
gcaaatacta	aaagtgtaat	ttgattataa	gagtttagat	aaatatatga	aatgcaagag	2760

```

ccacagaggg aatgtttatg gggcacgttt gtaagcctgg gatgtgaagc aaaggcaggg 2820
aacctcatag tatcttatat aatatacttc atttctctat ctctatcaca atatccaaca 2880
agctttttcac agaattcatg cagtgc aaat ccccaaagggt aacctttatc catttcatgg 2940
tgagtgcgct ttagaatttt ggcaaactcat actggtcact tatctcaact ttgagatgtg 3000
tttgtccttg tagttaattg aaagaaatag ggcaactcttg tgagccactt taggggttcac 3060
tcttggaat aaagaattta caaagagcaa aaaaaaaaaa aaaaaaaaaa aa 3112

```

```

<210> 469
<211> 2229
<212> DNA
<213> Homo sapiens

```

```

<400> 469
agctctttgt aaattcttta ttgccaggag tgaaccctaa agtgggtcac aagagtgtcc 60
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tgatttgcca aaattctaaa gcgcactcac catgaaatgg ataaagggtta cctttgggga 180
tttgactgct atgaattctg tgaaaagctt gttggatatt gtgatagaga tagagaaatg 240
aagtatatta tataagatac tatgaggttc cctgcctttg cttcacatcc caggccttaca 300
aacgtgtccc ataaacattc cctctgtggc tcttgcatct catatattta tctaaactct 360
tataatcaaa tacactttta gtatttgctg tctcatgtga tgatgaatct catatgtgtc 420
ccttctttgc atgaagtaag atagtcaact tattcaaaac ttacatcat tctagattta 480
agagacaagg aagagcttct caggcagaag gaataatgta tgcctgacat gttcaaggaa 540
ttacaagtta gattttgttt aggtgcatgg gaggggttga tgggtgatgac agataaggct 600
ggagggatgg ggagaggctg tggctgtata cagcctcagt acaaggctaa gcattttaac 660
tttatactgg aaaaaaaatc aaacaaaggg gagggataaa ggacttagtc atctttgcac 720
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ttaaaaaaaa agttaatcct gtgatattaa tggaatgaca ttttgaggct ttgagaatgg 840
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ggtcacctga ggtcaggagt tcaagaccag cctggccaat atgggtgaaac cccatctcta 2160
ctaaaaatc aaaaattagc tgggcgtgct ggtgcatgcc tghtaatcca gccccaacac 2220
aatggaatt 2229

```

```

<210> 470
<211> 2426

```

<212> DNA
<213> Homo sapiens

<400> 470

```

gtaaattctt tattgccagg agtgaaccct aaagtggctc acaagagtgc cctattttctt 60
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caaaattcta aagcgcactc accatgaaat ggataaagggt tacctttggg gattttgcaact 180
gcatgaattc tgtgaaaagc ttgttgata ttgtgataga gatagagaaa tgaagtatat 240
tatataagat actatgaggt tccttgccct tgcctcacat cccaggctta caaacgtgcc 300
ccataaacat tcctctgtg gctcttgcat ttcatatatt tatctaaact cttataatca 360
aattacactt ttagtatttg ctgtctcatg tgatgatgaa tctcatatgt gtcccttctt 420
tgcatgaagt aagatagtc aacttattcaa aactttacat cattctagat ttaagagaca 480
aggaagagct tctcaggcag aaggaataat gtatgcctga catgttcaag gaattacaag 540
ttagattttg tttaggtgca tgggaggggt tgatggtgat gacagataag gctggaggga 600
tggggagagg ctgtggctgt atacagcctc agtacaaggc taagcatttt aactttatac 660
tggaaaaaaa atcaaacaaa ggggagggat aaaggactta gtcactctttg cactggaaaa 720
caaaatatgt aattaaattc ccataagctgc atgtaacatt gaattcttcc aggttaaaaa 780
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ggcatagtca gatacaacgt ggggtgggat tgtaaataga agcaggatat aaagggcatg 2400
gggtgacggt tttgccaac acaatg 2426

```

<210> 471
<211> 812
<212> DNA
<213> Homo sapiens

<400> 471

```

gaacaaaatg agtaatgtta ttctacagt tagaaagggtc acagtacaga tctgggaact 60
aaatatataa aatgagtgtg gctggatata tggagaatgt tgggcccaga aggaaccgta 120

```

```

gagatcagat attacaacag ctttgttttg agggtttagaa atatgaaatg atttggttat 180
gaacgcacag tttaggcagc agggccagaa tcctgaccct ctgcccctg gttatctcct 240
ccccagcttg gctgcctcat gtcacacag tattccattt tgtttggtgc atgtcttggt 300
aagccatcaa gattttctcg tctgttttcc tctcattggt aatgctcact ttgtgacttc 360
atttcaaato tgtaatcccg ttcaaataaa tatccacaac aggatctggt ttctgcccc 420
tcctttaagg aacacatcaa ttcattttct aatgtccttc cctcacaagc gggaccaggc 480
acaggggcag gctcatcgat gacccaagat ggcgcccggg catttctccc agggatctct 540
gtgcttcctt ttgtgcttcc tgtgtgtgtg gatatttaaa ggggctggaa atgtgcaaaa 600
acatgtcact acttagacat tatattgtca tcttgctggt tctagtgatg ttaattatct 660
ccatttcagc agatgtgtgg ctcagatgg taaagtcagc agcctttctt atttctcacc 720
tctgtatcat cagggtcctt ccaccatgca gatcttcctg gtctccctcg gctgcagcca 780
cacaatctc ccctctggtt ttctgatgcc ag

```

```

<210> 472
<211> 515
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(515)
<223> n = A,T,C or G

```

```

<400> 472
acggagaactt attttctgat attgtctgca tatgtatggt ttaagagtc tggaaatagt 60
cttatgactt tcctatcatg cttattaata aataatacag cccagagaag atgaaaatgg 120
gttccagaat tatttggctc tgcagcccgg tgaatctcag caagaggaac caccaactga 180
caatcaggat attgaacctg gacaagagag agaaggaaca cctccgatcg aagaacgtaa 240
agtagaagggt gattgccagg aaatggatct ggaagagact cggagtgagc gtggagatgg 300
ctctgatgta aaagagaaga ctccacctaa tcctaagcat gctaagacta aagaagcagg 360
agatgggcag ccataagtta aaaagaagac aagctgaagc tacacacatg gctgatgtca 420
cattgaaaat gtgactgaaa atttgaaaat tctctcaata aagtttgagt tttctctgaa 480
gaaaaaaaaa naaaaaaaaa aaanaaaan aaaaa

```

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<210> 473
<211> 5829
<212> DNA
<213> Homo sapiens

```

```

<400> 473
cgcatgccgg ggaagcccaa gctggctcga agagccacca gccacctgtg caagggtggg 60
cctggaccag ttggaccagc caccaagctc acctactcaa ggaagcaggg atggccagggt 120
tgcaacagcc tgagtggctg ccacctgata gctgatggag cagaggcctg aggaaaatca 180
gatggcacat ttagctcttt aatggatctt aagttaattt ttctataaag cacatggcac 240
cagtccatgc ctcagagctc gtatggcact gcggaccaca gcaggccgag ttcccaggat 300
tgccatccag gggggccttc tgtagccctg gccagacctt gcagagggtg ctgggtgctc 360
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gtgagcttgt cctgccttgg ctgccacctt actgctgatg gagcagcggc cttaggaaaa 480
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acacagagag gaaacaagca gcgggctcag gagcagggtg tgtgctgcct ttggggctcc 720
agtccatgcc tcgggtcgta tggtactgca ggcttcttgg ttgccaagag gcggaccaca 780
ggccttcttg aggaggactt tacgttcaag tgcagaaagc agccaaaatt accatccatg 840

```



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aaactttcta ataagagtta acttagagcc atttaagaaa ggaaaaaaca caaattatca 4140
gaaaaacaac agtaagatca agtgcaaaaag ttctgtggca aagatgatga gagtaaagaa 4200
tatatgtttg tgactcatgg tggccttttac tttgttcttg aatttctgag tacgggttaa 4260
catttaaaga atctacatta tagataacat tttattgcaa gtaaagtgtat ttcaaaattt 4320
gttattgggt ttgtatgaga ttattctcag cctacttcat tatcaagcta tattatttta 4380
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ttgtgattgt gtgacctgtt gaaagttact taaacctct gtgcctgttt ctttatctgt 5760
aaaatggaga taataagatg tcaaaggact gtggtaaaga ttaaattgctt taaaaaaaaa 5820
aaaaaaaaa

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```

<210> 474
<211> 1594
<212> DNA
<213> Homo sapiens

```

```

<400> 474
atttatggat cattaatgcc tcttttagtag ttttagagaaa acgtcaaaaag aaatggcccc 60
agaataagct tcttgatttg taaaattcta tgtcattggc tcaaatttgt atagtatctc 120
aaaatataaa tatatagaca tctcagataa tatatttgaa atagcaaat cctgtagaa 180
aataatagta cttaactaga tgagaataac aggtcgccat tatttgaatt gtctcctatt 240
cgtttttcat ttgttgtgtt actcatgttt tacttatgag ggatatatat aacttcact 300
gttttcagaa ttattgtatg cagtcagtat gagaatgcaa ttttaagttc cttgatgctt 360
tttcacactt ctattactag aaataagaat acagtaatat tggcaaagaa aattgaccag 420
ttcaataaaa ttttttagta aatctgattg aaaataaaca ttgcttatgg ctttcttaca 480
tcaatattgt tatgtcctag acaccttata tgaaattacg gcttcaaaat tctaattatg 540
tgcaaatgtg taaaatatca atactttatg ttcaagctgg gccctcttca ggcgtcctgg 600
gctgagagag aaagatgcta gctccgcaag ccggagaggg aacaccgcca cattgttaca 660
cggacacacc gccacgtgga cacatgacca gactcacatg tacagacaca cggagacatt 720
accacatgga gacaccgtca cacagtcaca cggacacact ggcatagtca catggacgga 780
cacacagaca tatggagaaa tcacatggac acaccaccac actatcacag ggacacagac 840
acacggagac atcaccacat ggacacactg tcacactacc acagggacac gagacatcac 900
actgtcacat ggacacacca tcacacacat gaacacaccg acacactgcc atatggacac 960
tggcacacac actgccacac tgtcacatgg acacacctcc acaccatcac accaccacac 1020

```

```

acactgcctg tggacacaag gacacacaga cactgtcaca cagatacaca aaactgtgc 1080
acacggagac atcaccatgc agatacacca ccactctggt gccgtctgaa ttaccctgct 1140
ggggggacag cagtggcata ctcatgccta agtgactggc ttccaccca gtagtgattg 1200
ccctccatca aactgccc cccaggttg gggctacccc agcccatctt tacaaaacag 1260
ggcaaggtga actaatggag tgggtggagg agttggaaga aatcccagcg tcagtcaccg 1320
ggatagaatt cccaaggaac cctctttttg gaggatggtt tccatttctg gaggcgatct 1380
gccgacaggg tgaatgcctt cttgcttgct ttctggggaa tcagagagag tccgttttgt 1440
ggtgggaaga gtgtggctgt gtactttgaa ctctgtaaa ttctctgact catgtccaca 1500
aaaccaacag ttttgtgaat gtgtctggag gcaagggaag ggccactcag gatctatgtt 1560
gaagggaaga ggctggggc tggagtattc gctt 1594

```

```

<210> 475
<211> 2414
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (33)
<223> n=A,T,C or G

```

```

<400> 475
cccaacacaa tggctttata agaatgcttc acntgtgaaa aacaaatata aaagtcttct 60
tgtagattat ttttaaggac aaatctttat tccatgttta atttatttag ctttccctgt 120
agctaataat tcatgctgaa cacattttta atgctgtaaa ttagagataat gtaatttatg 180
tatcattaat gccctctttag tagtttagag aaaacgtcaa aagaaatggc ccagaataa 240
gcttcttgat ttgtaaaatt ctatgtcatt ggctcaaatt tgtatagtat ctcaaaatat 300
aaatatatag acatctcaga taatatattt gaaatagcaa attcctgtta gaaaataata 360
gtacttaact agatgagaat aacaggctgc cattatttga attgtctcct attcgttttt 420
catttgttgt gttactcatg ttttacttat ggggggatat atataacttc cgctgttttc 480
agaagtattg tatgcagtca gtatgagaat gcaatttaag tttccttgat gctttttcac 540
acttctatta ctagaaataa gaatacagta atattggcaa agaaaattga ccagttcaat 600
aaaatttttt agtaaatctg attgaaaata aacattgctt atggctttct tacatcaata 660
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gacatatgga gaaatcacac tgacacacca ccacactatc acagggacac agacacacgg 1020
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ccatgtggac acaaggacac acagacactg tcacacagat acacaaaaca ctgtcacacg 1260
gagacatcac catgcagata caccaccaca tggacatagc accagacact ctgccacaca 1320
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ctataagggc atgcaagaat aaaaataggg gagaaaacag gagagttttt caagagcttt 1800
ctggctcatgt aagtcaactt gtatcggtta atttttaaaa ggtttattta catgcaataa 1860
actgcacata cttcaattgt acattttggt aattcttggc attttagact ctataaaacc 1920

```

```

agcaacatat taaaatagca aacatatcca ttacctttac caccaaagtt ttcttgtgtt 1980
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cttccagtca ctatccatga gttttttatt ccaaatacat gaaatcatat gaattttctgg 2100
tttttctctgt tggagcccaa ggagcaaggg cagaatgagg aacatgatgt ttcttwccga 2160
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tcctcctcca tccaggacct gaggggtgtc cttttctgcg cttccttgga tggcagtcct 2340
tccttctcatg tttatagtra cttaccatta aatcactgtg ccgttttttc ctaaaataaa 2400
aaaaaaaaaa aaaa 2414

```

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<210> 476
<211> 3434
<212> DNA
<213> Homo sapiens

```

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<400> 476
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actccctttg ggccttcagt ccatgtctca tgggtcgtat gacactgcgg gcttgttggg 120
tgccaagagg cagaccacag gtcctcttga ggaggacttt atgttccagt ccagaaagca 180
gccagtggta ccaccaggg gacttgtgct tctgtggccc aggccagacg tagaatttga 240
caaagtcagg acggtctcag tcagagcagc atgtcgggtcc ccggggcctg tgcattgccg 300
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aaatcccttt aaaggttagt ttgtaaaatc aggttaagttt atttataatt tgctttcatt 2160
tatttcactg caaattatat tttggatatg tatatatatt gtgcttctc tgctgtctt 2220
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<210> 478
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 478
 Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
 5 10 15
 Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
 20 25 30
 Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45
 His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
 50 55 60
 Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
 65 70 75 80
 Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
 85 90 95
 His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
 100 105 110
 Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
 115 120 125
 His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
 130 135 140

<210> 479
 <211> 222
 <212> PRT
 <213> Homo sapiens

<400> 479
 Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
 5 10 15
 Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
 20 25 30
 Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45
 His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
 50 55 60
 Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr

65						70						75						80
Pro	Thr	His	Cys	His	Met	Asp	Thr	Ala	Thr	His	Thr	Ala	Thr	Leu	Ser			
				85					90					95				
His	Gly	His	Thr	Ser	Ile	Pro	Ser	His	His	His	Thr	His	Cys	His	Val			
				100					105					110				
Asp	Thr	Arg	Thr	His	Arg	His	Cys	His	Thr	Asp	Thr	Gln	Asn	Thr	Val			
				115					120					125				
Thr	Arg	Arg	His	His	His	Ala	Asp	Thr	Pro	Pro	His	Gly	His	Ser	Thr			
				130					135					140				
Arg	His	Ser	Ala	Thr	Gln	Ile	His	His	His	Thr	Glu	Met	Arg	Thr	His			
				145					150					155				
Cys	His	Thr	Asp	Thr	Thr	Thr	Ser	Leu	Pro	His	Phe	His	Val	Ser	Ala			
				165					170					175				
Gly	Gly	Val	Gly	Pro	Thr	Thr	Leu	Gly	Ser	Asn	Arg	Glu	Ile	Thr	Trp			
				180					185					190				
Thr	Tyr	Ser	Glu	Gly	Lys	Ile	Phe	Phe	Tyr	Phe	Leu	Gly	Asn	Gln	Ala			
				195					200					205				
Arg	Leu	Cys	Leu	Lys	Lys	Arg	Lys	Lys	Lys	Gln	Tyr	Thr	Val					
				210					215					220				
<210> 480																		
<211> 144																		
<212> PRT																		
<213> Homo sapiens																		
<400> 480																		
Met	Glu	Pro	Tyr	Arg	Gly	Asn	Glu	Gln	Pro	Ser	Gln	Glu	Gln	Gly	Val			
				5					10					15				
Cys	Cys	Leu	Trp	Gly	Leu	Gln	Ser	Leu	Pro	Gln	Gly	Ser	Tyr	Val	Thr			
				20					25					30				
Val	Gly	Phe	Leu	Val	Val	Lys	Arg	Gln	Thr	Ile	Gly	Arg	Leu	Glu	Arg			
				35					40					45				
Asp	Phe	Met	Phe	Lys	Cys	Arg	Lys	Gln	Pro	Gly	Leu	Pro	Pro	Ser	Gly			
				50					55					60				
Leu	Cys	Leu	Leu	Trp	Pro	Trp	Pro	Asn	Leu	Glu	Phe	Gly	Arg	Arg	Gln			
				65					70					75				
Asp	Arg	Leu	Thr	Trp	Ser	Ser	Val	Ser	Val	Ala	Gly	Val	Cys	Ala	Cys			
				85					90					95				

Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
 100 105 110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
 115 120 125

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
 130 135 140

<210> 481

<211> 167

<212> PRT

<213> Homo sapiens

<400> 481

Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
 5 10 15

Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
 20 25 30

Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
 35 40 45

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
 50 55 60

Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
 65 70 75 80

Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
 85 90 95

Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
 100 105 110

Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
 115 120 125

Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
 130 135 140

Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
 145 150 155 160

Trp Leu Ser Arg Gly Arg Pro
 165

<210> 482

<211> 143
 <212> PRT
 <213> Homo sapiens

<400> 482
 Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val
 5 10 15
 Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
 20 25 30
 Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
 35 40 45
 Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
 50 55 60
 Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
 65 70 75 80
 Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
 85 90 95
 Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
 100 105 110
 Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
 115 120 125
 Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
 130 135 140

<210> 483
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 483
 Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
 5 10 15
 Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
 20 25 30
 Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
 35 40 45
 Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
 50 55 60
 Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
 65 70 75 80

<400> 487

cccgaattct tagctgccca tccgaacgcc ttcata

36

<210> 488

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 488

gggaagcttc ttccccggct gcaccagctg tgc

33

<210> 489

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 489

Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
 1 5 10 15
 Ser Val Ala

<210> 490

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 490

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
 1 5 10 15
 Leu Ser His Ser
 20

<210> 491

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 491

Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
 1 5 10 15
 Thr Gly Phe Thr
 20

<210> 492
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 492
 Ala Leu Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr
 1 5 10 15
 Leu Ala Ser Leu
 20

<210> 493
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 493
 Tyr Thr Leu Ala Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro
 1 5 10 15
 Lys Tyr Arg Gly
 20

<210> 494
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 494
 Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser
 1 5 10 15
 Leu Met Ile Ser
 20

<210> 495
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 495
 Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro Gly Ala Pro

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1           5           10           15
Phe Pro Asn Gly
20

<210> 496
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 496
Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
1           5           10           15
Pro Pro Pro Pro Ala
20

<210> 497
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 497
Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val
1           5           10           15
Ser Val Arg Val
20

<210> 498
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 498
Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val
1           5           10           15
Val Pro Gly Arg
20

<210> 499
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

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<400> 499
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 1 5 10 15
 Ser Ala Phe Leu
 20

<210> 500
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 500
 Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met
 1 5 10 15
 Gly Ser Ile Val
 20

<210> 501
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 501
 Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met
 1 5 10 15
 Val Ser Ala Ala
 20

<210> 502
 <211> 414
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n=A,T,C or G

<400> 502
 caccatggag acaggcctgc gctggctttt cctggctcgt gtgctcaaag gtgtccaatg 60
 tcagtcggtg gaggagtccg ggggtcgct ggtcacgcct gggacacctt tgacantcac 120
 ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggtccc 180
 agggaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc 240
 gaaaggccga ttnatnattt ccaaaacctn gaccacggtg gatttgaaaa tgaccagtcc 300
 gacaaccgag gacacggcca cctatttttg tggcagaatg aatactggta atagtgggtg 360
 gaagaatatt tggggcccag gcaccctggt caccgtntcc tcagggcaac ctaa 414

<210> 503

<400> 506
atggagacag gcttgcgctg gcttctcctg gtcgctgcgc tcaaaggtgt ccagtgtcag 60

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tcgctggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgc      120
accgtctctg gattctccct cagtagcaat gcaatgatct gggtcgccca ggctccaggg      180
aaggggctgg aatacatcgg atacattagt tatgggtgga gcgcatacta cgcgagctgg      240
gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt      300
ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg      360
ttgtggggcc caggcaccct ggtcaccgct tcctcagggc aacctaa                      407

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<210> 507
<211> 422
<212> DNA
<213> Homo Sapien

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<400> 507
atggagacag gcctgcgctg gcttctcctg gtcgctgtgc tcaaagggtg ccagtgtcag      60
tcggtggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgt      120
acagtctctg gattctccct cagcaactac gacctgaact gggtcgccca ggctccaggg      180
aaggggctgg aatggatcgg gatcattaat tatgttgga ggacggacta cgcgaactgg      240
gcaaaaggcc gggtcaccat ctccaaaacc tcgaccacgg tggatctcaa gatcgccagt      300
ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct      360
ggtcctgtgt tgcgcatctg gggcccaggc acctgggtca ccgtctcctt agggcaacct      420
aa                                                                422

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<210> 508
<211> 411
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(411)
<223> n=A,T,C or G

```

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<400> 508
atggagacag gcctgcgctg cttctcctgg tcgctgtgct caaagggtgc cagtgtcagt      60
cgggtggagg gtccgggggt cgcttggtca cgctggggac acccctgaca ctcacctgca      120
cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccagggg      180
aggggctgga atggatcgga atcattggta ctctgggtga cacatactac gcgaggtggg      240
cgaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc      300
cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta      360
ctggttatta taaaatctgg ggcccaggca ccctgggtcac cgtctccttg g                      411

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<210> 509
<211> 15
<212> PRT
<213> Artificial Sequence

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<220>
<223> Made in a lab

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<400> 509
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1             5             10             15

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<210> 510

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<211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 510
 Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
 1 5 10 15

<210> 511
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 511

Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys
 1 5 10 15

<210> 512
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 512
 Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu
 1 5 10 15

<210> 513
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 513
 Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu
 1 5 10 15

<210> 514
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Made in a lab

<400> 514

Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1 5 10 15

<210> 515

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 515

Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg
1 5 10 15

<210> 516

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 516

Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln
1 5 10 15

<210> 517

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 517

Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met
1 5 10 15

<210> 518

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 518

Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
1 5 10 15

<210> 519
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 519
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys
 1 5 10 15
 Gly

<210> 520
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 520
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
 1 5 10 15
 Glu Ala Arg Arg His Tyr Asp Glu Gly
 20 25

<210> 521
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 521
 Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
 1 5 10 15
 Pro Pro Pro Pro Ala
 20

<210> 522
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 522
 Leu Leu Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp
 1 5 10 15
 Phe Thr Gln Val

20

<210> 523
 <211> 254
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<220>
 <221> VARIANT
 <222> (1)...(254)
 <223> Xaa = any amino acid

<400> 523

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Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
 1          5          10          15
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
          20          25          30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
          35          40          45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
          50          55          60
Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
          65          70          75          80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
          85          90          95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
          100          105          110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
          115          120          125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
          130          135          140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
          145          150          155          160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
          165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
          180          185          190
Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly
          195          200          205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
          210          215          220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
          225          230          235          240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
          245          250

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<210> 524
 <211> 765
 <212> DNA
 <213> Homo sapien

atggccacag	caggaaatcc	ctggggctgg	ttctgtgggt	acctcactct	tggtgtcgca	60
ggatcgctcg	tctctggtag	ctgcagccaa	atcataaacg	gcgaggactg	cagcccgcac	120
tcgcagccct	ggcaggcggc	actggtcatg	gaaaacgaat	tggtctgctc	gggcgtcctg	180
gtgcatccgc	agtgggtgct	gtcagccgca	cactgtttcc	agaactccta	caccatcggg	240
ctgggcctgc	acagtcttga	ggccgaccaa	gagccaggga	gccagatggt	ggaggccagc	300
ctctccgtac	ggcaccacaga	gtacaacaga	cccttgctcg	ctaacgacct	catgtctatc	360
aagttggacg	aatccgtgtc	cgagttctgac	accatccgga	gcatacagcat	tgtttcgcag	420
tgccctaccg	cggggaactc	ttgcctcgtt	tctggctggg	gtctgctggc	gaaccgcaga	480
atgcctaccg	tgctgcagtg	cgtgaacgtg	tcggtggtgt	ctgaggagggt	ctcgagtaag	540
ctctatgacc	cgtgttacca	ccccagcatg	ttctgcgccg	cgcgaggggca	agaccagaag	600
gactcctgca	acggtgactc	tggggggccc	ctgatctgca	acgggtactt	gcagggcctt	660
gtgtctttcg	gaaaagcccc	gtgtggccaa	gttggcgtgc	cagggtgtcta	caccaacctc	720
tgcaaatcca	ctgagtggat	agagaaaacc	gtccaggcca	gttaa		765

<211> 254

<212> PRT

<213> Homo sapien

Met 1	Ala	Thr	Ala	Gly 5	Asn	Pro	Trp	Gly	Trp 10	Phe	Leu	Gly	Tyr	Leu 15	Ile
Leu	Gly	Val	Ala 20	Gly	Ser	Leu	Val	Ser 25	Gly	Ser	Cys	Ser	Gln 30	Ile	Ile
Asn	Gly	Glu 35	Asp	Cys	Ser	Pro	His 40	Ser	Gln	Pro	Trp	Gln 45	Ala	Ala	Leu
Val 50	Met	Glu	Asn	Glu	Leu	Phe 55	Cys	Ser	Gly	Val	Leu 60	Val	His	Pro	Gln
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Ser 130	Asp	Thr	Ile	Arg	Ser	Ile 135	Ser	Ile	Ala	Ser	Gln 140	Cys	Pro	Thr	Ala
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Met	Pro	Thr	Val 165	Leu	Gln	Cys	Val	Asn	Val 170	Ser	Val	Val	Ser	Glu 175	Glu
Val	Cys 180	Ser	Lys	Leu	Tyr	Asp	Pro 185	Leu	Tyr	His	Pro	Ser 190	Met	Phe	Cys
Ala	Gly 195	Gly	Gly	Gln	Asp	Gln 200	Lys	Asp	Ser	Cys	Asn 205	Gly	Asp	Ser	Gly
Gly 210	Pro	Leu	Ile	Cys	Asn 215	Gly	Tyr	Leu	Gln	Gly	Leu 220	Val	Ser	Phe	Gly
Lys 225	Ala	Pro	Cys	Gly 230	Gln	Val	Gly	Val	Pro	Gly 235	Val	Tyr	Thr	Asn 240	Leu
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 <213> Homo sapiens

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 35 40 45
 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
 50 55 60
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 65 70 75 80
 Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
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<212> DNA
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<400> 530

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<212> DNA
<213> Homo sapiens

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<210> 532

<211> 292

<212> PRT

<213> Homo sapiens

<400> 532

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Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
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Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
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Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
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Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
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Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
 115 120 125

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Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
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Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
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Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
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Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
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<213> Homo sapiens
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Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His				

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945					950					955					960
Glu	Asn	Met	Met	Ile	Ser	Val	Glu	Arg	Val	Ile	Glu	Tyr	Thr	Asp	Leu
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Glu	Lys	Glu	Ala	Pro	Trp	Glu	Tyr	Gln	Lys	Arg	Pro	Pro	Pro	Ala	Trp
			980					985						990	
Pro	His	Glu	Gly	Val	Ile	Ile	Phe	Asp	Asn	Val	Asn	Phe	Met	Tyr	Ser
		995					1000					1005			
Pro	Gly	Gly	Pro	Leu	Val	Leu	Lys	His	Leu	Thr	Ala	Leu	Ile	Lys	Ser
	1010					1015					1020				
Gln	Glu	Lys	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser
1025					1030					1035					1040
Leu	Ile	Ser	Ala	Leu	Phe	Arg	Leu	Ser	Glu	Pro	Glu	Gly	Lys	Ile	Trp

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1045          1050          1055
Ile Asp Lys Ile Leu Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys
1060          1065          1070

Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met
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Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp
1090          1095          1100

Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro
1105          1110          1115          1120

Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val
1125          1130          1135

Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn
1140          1145          1150

Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr
1155          1160          1165

Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr
1170          1175          1180

Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys
1185          1190          1195          1200

Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr
1205          1210          1215

Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln
1220          1225          1230

Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg
1235          1240          1245

Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser
1250          1255          1260

<210> 539
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

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Cys Leu Ser His Ser Val Ala Val Val Thr
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<210> 540

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Met Thr

<210> 545
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 545
 Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
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Ser Val

<210> 546
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 546
 Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly
 5 10 15

Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met
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<210> 547
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 547
 Val Ala Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu
 5 10 15

Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu
 20 25 30

Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys
 35 40 45

Cys Arg Met Pro Arg Thr Leu Arg Arg Leu
 50 55

<210> 548
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 548
 Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu
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Glu Cys

<210> 549
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 549
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 5 10 15

Gln Ala

<210> 550
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 550
 Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe
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<210> 551
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 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 551
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<210> 552
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 <212> DNA
 <213> Homo sapiens

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<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

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Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys
          5                      10                      15

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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
          20                      25                      30

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Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
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Glu Pro His His Thr Gly Gly Gly Glu His
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<210> 554
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 554
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 Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val
 20 25 30
 Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro
 35 40 45
 Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu
 50 55

<210> 555
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 555
 Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln
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 Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser
 20 25 30
 Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp
 35 40 45
 Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro
 50 55 60
 Ser Asp Pro Leu Glu Leu Leu
 65 70

<210> 556
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 556
 Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr
 5 10 15
 Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
 20 25 30
 Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly

35 40 45
 Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
 50 55 60
 Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg
 65 70 75 80
 Ile

<210> 557
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 557
 Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu
 5 10 15
 Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu
 20 25 30
 Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys
 35 40 45
 Gly Phe His Ile Arg Phe
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<210> 558
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (1)...(77)
 <223> Xaa = Any amino acid

<400> 558
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 5 10 15
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 20 25 30
 Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
 35 40 45
 Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
 50 55 60

<400> 561
Val Leu His Leu Asp Gln Met Asn Asn Val Gly Ile Xaa Met Asp Lys

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<210> 562
<211> 59
<212> PRT
<213> Homo sapiens
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<220>  
<221> VARIANT  
<222> (1)...(59)  
<223> Xaa = Any amino acid
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<400> 562
Asp Leu Tyr Pro Xaa Arg Ser Gln His Cys Ser Phe Asp Pro Ser Val
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Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu
          20                      25                      30

Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val
          35                      40                      45

Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro
          50                      55

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<210> 563
<211> 79
<212> PRT
<213> Homo sapiens
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<400> 563
Cys Phe Leu Phe Pro Tyr Leu Trp Leu Tyr Ala Gln Pro Leu Phe Pro
          5                      10                      15

Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His
          20                      25                      30

Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met
          35                      40                      45

Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg
          50                      55                      60

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Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg
 65 70 75

<210> 564
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 564
 Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala
 5 10 15

Glu Arg Asp Gln Cys Leu Phe Leu Leu Leu Cys Tyr Gln Ile Tyr Thr
 20 25 30

Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser
 35 40 45

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
 50 55 60

<210> 565
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(57)
 <223> Xaa = Any amino acid

<400> 565
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 5 10 15

Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
 20 25 30

Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
 35 40 45

Tyr Ala Val Ser Ser Xaa His Asn Val
 50 55

<210> 566
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 566
 Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg

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<210> 567
<211> 51
<212> PRT
<213> Homo sapiens

<400> 567
Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu
              5                      10                      15
Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
              20                      25                      30
Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile
              35                      40                      45
Phe Arg Thr
              50

```

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<210> 568
<211> 75
<212> PRT
<213> Homo sapiens

<400> 568
Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile
          5                      10                      15

Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu
          20                      25                      30

Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
          35                      40                      45

Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
          50                      55                      60

Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
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<210> 569
 <211> 4809
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 ccattttagt actatgggtg agtacatgga attgaagtct ggcttaaatc ttcagaaagt 180
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 gtgcgggtgcc acaatcttgg ctcactgcaa cctctgagtc ccaggttcaa gcgataactca 300
 tgccctggcc tcctgagtag ctgggactac aggcgtgcac caccacatct ggctaattct 360
 tttttgtatt tttagtagag acggggtttc actgtggtct ccatctcctg acctcgtgat 420
 ccgctgcct cccaaagtgc tgggattaca ggcatgagcc accgcacaca gctgggactg 480
 ggtaatttat aaagaaaaga ggttttaatga ctcacagttc cgcattggctg gagaggcctc 540
 aggaaactta caatcatggt ggaaggcgaa ggggaagcaa ggcacgtctt acatgggtggc 600
 aggagagaac gagtgagggg ggagactgcc acaaactttt tttttttgag acaagagtct 660
 ggccctgttg ccaggctgg agtgacgtgg catgatctca gctcactgca acctctgcct 720
 cacaggttca agcaattctc atgcctcagc ctcccgcata gctgggacca cagggtatgca 780
 ccaccacacc tagctaattt ttgtagtttt agtagagatg gggctctcact atgttgctca 840

ggctggtcta aaactcctgg gctccagcaa tccgcctgcc ttggcctccc aaagtgctgg 900
 ggttacaggc ataagccacc acatccagcc tgccacatac ttttaaacta t 951

<210> 571
 <211> 819
 <212> DNA
 <213> Homo sapiens

<400> 571
 cagcttaaaa atggttttctt gaaatcagtg attagcattc actcaccagt acccctacta 60
 aggggtaggc actggtttgt actcctggga atacaggagt acaccagaat ttattttctgc 120
 ttattgcttt tgttgcaaat gccgtggctt catctgagga attctagaat tcagaggggtg 180
 tagccctcca ctctgctgtc ttgctatctg ctctcattgc atccgtttta cctgcattct 240
 gaaagatggt tctcagggtt ttctttgacg attttcttct tttctgattc tgacaatggt 300
 ttaaatacatt gtactgtggt tatcatttct ctgcatttat tttacccatc ttcctttgta 360
 acttgctcta ttgtctttta atttctgctt gttctttatg gctttcaact tcataaataa 420
 catgttttct caaatctctt tgtgaattcc agagagggcc aggcacgggtg gctcacatct 480
 gtaatcccag cactttgggg aggttgagac gggtagatca cttgaggtca ggagtttgag 540
 accagcctgg ccaacatggt gaaatcccgt ttcactaaaa atacaaaaat taccaggga 600
 tggtaggggg cgctgtaat cccaggtact cgggaggctg agggaggaga atcgcttgaa 660
 cctgggaggg tgaggaggga gaatcgcttg aaccggggag gcagaggttg cagtgaaccg 720
 agatcatggt gctgcactcc agcctgggtc acagagcaag actctgcctc aaaaacaaac 780
 aaataaacia acaaacaaac aaaacagaga gattttgct 819

<210> 572
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 572
 tatagaatac tcaagctatg catcaagctt ggtaccgagc tcggatccac tatttacggc 60
 cgccagtgtg ctggaattcg cccttagctc ggatccaact gtccagtgtg gtggaattcc 120
 attgtgttgg gcccaacaca atggagccac cacatccagc ctgccacata cttttaaact 180
 atcaggtctc atgagaactc atg 203

<210> 573
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 573
 Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
 5 10 15

Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
 20 25 30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
 35 40 45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
 50 55 60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala

```

<210> 574
<211> 62
<212> PRT
<213> Homo sapiens

<400> 574
Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
          5                               10                      15

His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
          20                               25                      30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
          35                               40                      45

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
          50                               55                      60

```

```

<210> 575
<211> 76
<212> PRT
<213> Homo sapiens

<400> 575
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
          5                      10                      15

Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
          20                      25                      30

Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
          35                      40                      45

Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
          50                      55                      60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
          65                      70                      75

```

<400> 578

Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His
 5 10 15
 His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr
 20 25 30
 Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr
 35 40 45
 Gln Pro His
 50

<210> 579
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 579
 Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
 5 10 15
 Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
 20 25 30
 Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
 35 40 45
 Ile Ala Lys Val Tyr Gln Pro His
 50 55

<210> 580
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 580
 Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
 5 10 15
 Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
 20 25 30
 Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
 35 40 45
 His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
 50 55 60
 Phe Ile His
 65


```

<400> 581
Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu
          5                      10                      15

Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser
          20                      25                      30

Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala
          35                      40                      45

Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu
          50                      55                      60

Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser
          65                      70                      75

```

```

<400> 582
Met Leu Phe Leu Gln Thr Ile Asp Thr Lys Cys Thr Gly Ile Glu Ile
          5                      10                      15

Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val
          20                      25                      30

Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe
          35                      40                      45

Leu Gly Val
          50

```

```

<400> 583
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
           5              10              15

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
          20              25              30

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly

```

35

40

45

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 50 55 60

<210> 584

<211> 76

<212> PRT

<213> Homo sapiens

<400> 584

Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 585

<211> 50

<212> PRT

<213> Homo sapiens

<400> 585

Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
 5 10 15

Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
 20 25 30

Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
 35 40 45

Leu Phe
 50

<210> 586

<211> 60

<212> PRT

<213> Homo sapiens

<400> 586

Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly

5 10 15
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 587
 <211> 1408
 <212> DNA
 <213> Homo sapiens

<400> 587
 ctggacactt tgcgagggct tttgctggct gctgctgctg cccgtcatgc tactcatcgt 60
 agcccgcccg gtgaagctcg ctgctttccc tacctcctta agtgactgcc aaacgcccac 120
 cggctggaat tgctctgggt atgatgacag agaaaatgat ctcttcctct gtgacaccaa 180
 cacctgtaaa tttgatgggg aatgtttaag aattggagac actgtgactt gcgtctgtca 240
 gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa 300
 tgagtgttac ctgcgacagg ctgcatgcaa acagcagagt gagatacttg tgggtgcaga 360
 aggatcatgt gccacagatg caggatcagg atctggagat ggagtccatg aaggctctgg 420
 agaaactagt caaaaggaga catccacctg tgatatttgc cagtttggtg cagaatgtga 480
 cgaagatgcc gaggatgtct ggtgtgtgtg taatattgac tgttctcaa ccaacttcaa 540
 tccccctctgc gcttctgatg ggaaatctta tgataatgca tgccaaatca aagaagcatc 600
 gtgtcagaaa caggagaaaa ttgaagtcac gtctttgggt cgatgtcaag ataacacaac 660
 tacaactact aagtctgaag atgggcatta tgcaagaaca gattatgcag agaatgctaa 720
 caaattagaa gaaagtgcc aagaacacca cataccttgt ccggaacatt acaatggctt 780
 ctgcatgcac ggggaagtgtg agcattctat caatatgcag gagccatctt gcaggtgtga 840
 tgctggttat actggacaac actgtgaaaa aaaggactac agtgttctat acgttggtcc 900
 cggctcctgta cgatttcagt atgtcttaac cgcagctgtg attggaacaa ttcagattgc 960
 tgtcatctgt gtggtggtcc tctgcatcac aaggaaatgc cccagaagca acagaattca 1020
 cagacagaag caaaatacac ggcactacag ttcagacaat acaacaagag cgtccacgag 1080
 gttaattctaa agggagcatg ttccacagtg gctggactac cgagagcttg gactacacaa 1140
 tacagtatta tagacaaaag aataagacaa gagatctaca catgttgcc tgcatttgtg 1200
 gtaatctaca ccaatgaaaa catgtactac agctatattt gattatgtat ggatatattt 1260
 gaaatagtat acattgtctt gatgtttttt ctgtaatgta aataaactat ttatatcaca 1320
 caatawagtt ttttctttcc catgtatttg ttatatataa taaatactca gtgatgagaa 1380
 aaaaaaaaaa aaaaaaaaaa rwmgaccc 1408

<210> 588
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 588
 Met Pro Gln Lys Gln Gln Asn Ser Gln Thr Glu Ala Lys Tyr Arg Ala
 5 10 15
 Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys
 20 25 30

```
<210> 589
<211> 157
<212> PRT
<213> Homo sapiens

<400> 589
Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
      5                                10                        15

Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
      20                                25                        30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
      35                                40                        45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
      50                                55                        60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
      65                                70                        75                        80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
      85                                90                        95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
      100                               105                       110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
      115                               120                       125

Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
      130                               135                       140

Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
      145                               150                       155
```

<210>	590
<211>	347
<212>	PRT

<213> Homo sapiens

<400> 590

```

Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr
      5                      10                      15

Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr
      20                      25                      30

Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys
      35                      40                      45

Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys
      50                      55                      60

Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly
      65                      70                      75                      80

Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln
      85                      90                      95

Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala
      100                     105                     110

Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser
      115                     120                     125

Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys
      130                     135                     140

Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser
      145                     150                     155                     160

Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp
      165                     170                     175

Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile
      180                     185                     190

Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr
      195                     200                     205

Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala
      210                     215                     220

Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys Pro Glu
      225                     230                     235                     240

His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser Ile Asn
      245                     250                     255

Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His
      260                     265                     270

```

Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val
275 280 285

Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile
290 295 300

Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
340 345

<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

actaaagcaa	atgaacaagc	tgacttgcta	gtatcatctg	cattcattga	agcacaagaa	60
cttcatgcct	tgactcatgt	aaatgcaata	ggattaaaaa	ataaatttga	tatcacatgg	120
aaacagacaa	aaaatattgt	acaacattgc	acccagtgtc	agattctaca	cctggccact	180
caggaagcaa	gagttaatcc	cagaggtcta	tgctctaata	tgttatggca	aatggatgtc	240
atgcacgtac	cttcatttgg	aaaattgtca	tttgtccatg	tgacagttga	tacttattca	300
catttcatat	gggcaacctg	ccagacagga	gaaagtactt	cccatgttaa	aagacattta	360
ttatcttggt	ttcctgtcat	gggagttcca	gaaaaagtta	aaacagacaa	tgggccagggt	420
tactgtagta	aagcatttca	aaaattctta	aatcagtggg	aaattacaca	tacaatagga	480
attctctata	attcccaagg	acaggccata	attgaaggaa	ctaatagaac	actcaaagct	540
caattgggtta	aacaaaaaaa	aaaaa				565

<210> 592

<211> 188

<212> PRT

<213> Homo sapien

<400> 592

Thr	Lys	Ala	Asn	Glu	Gln	Ala	Asp	Leu	Leu	Val	Ser	Ser	Ala	Phe	Ile
1			5					10						15	
Glu	Ala	Gln	Glu	Leu	His	Ala	Leu	Thr	His	Val	Asn	Ala	Ile	Gly	Leu
		20						25				30			
Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln
		35					40				45				
His	Cys	Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg
		50				55					60				
Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val
65					70				75					80	
Met	His	Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val
			85					90					95		
Asp	Thr	Tyr	Ser	His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser
		100					105						110		

```
<210> 593
<211> 271
<212> DNA
<213> Homo sapien
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<400>	593						
actttatggt	cnagtgcana	aanccncctg	gattgccacc	ntactctcag	ggctgtgant		60
tgtgcnccca	nagcaacctg	ggcacgcggg	gacagggggg	ccnacaattg	agggagcggg		120
gtccctagct	gggggtctata	catgncnggg	naagggcngc	tgagtnccat	nagcaaagga		180
nctagnant	gcggggggtgc	ggcctggggc	taccetttna	agcctcctn	gatccactcc		240
angaanccng	gggtagncag	gttttccaac	a				271

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<220>
<221> misc_feature
<222> (1)...(376)
<223> n = A,T,C or G
```

```
<210> 595
<211> 242
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc feature
```

<222> (1)...(242)

<223> n = A,T,C or G

<400> 595

```

agnctgctgn tcgtncctn tatgtggctt catnntgagg acaanagtng cactgagget      60
tgngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tagnaanggt      120
atgccangag cangtgcacc agtcccaact angagnccn ggcattgtac atcttcttcc      180
acccctnaaa ntttgngcta caangnecat tttcttttt ctcttaaggg ncnctggct      240
tc                                                                    242

```

<210> 596

<211> 535

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(535)

<223> n = A,T,C or G

<400> 596

```

accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatttt      60
gaaagctttt taaatttttt ctttaagaag atttttagatg cttatcactg agtaccagag      120
ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta      180
ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctggtg      240
gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac      300
tcctggtgct gaccaggggt cctggaggaa gggatgaggt gggcagtaga gatgctcagg      360
gcagtggccc ctttccatcc acactggaac tatttcagta ttttaccacc aattcagcca      420
ttcctttgtg cgctggctga acatcagccc tgctccaggt ctcatgttcc cctttgtaaa      480
gggaaaagctc tggattcagg gagtgatgaa gaggtcatca tgggtcttgag aattc      535

```

<210> 597

<211> 257

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(257)

<223> n = A,T,C or G

<400> 597

```

tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattacat      60
tntntaacnt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn      120
atnctcttta agatnngatn agaccccggt tttcacggaa catatccaag naccatag      180
gnaacaagcc acggngggag tcacaaacat atattcttta ctctcataat ccgtnnaca      240
naactnttgn acttgac                                                                    257

```

<210> 598

<211> 222

<212> DNA

<213> Homo sapien

<220>

$\langle 222 \rangle \quad (1) \dots (222)$

<400> 598

ggaattccat tatattgggc tataagctgt aatagtggag ncgtgctnng ttcattgcan 120

tcatactgc atgaanctga ctcaaacgca tccacntaca cc 222

<211> 238

<213> Homo sapien

<221> misc feature

$$\langle 223 \rangle \quad n = A, T, C \text{ or } G$$

gcatgacatc ancgatgtnt ttggnnacct ganatttncct aaaactnngq natgccqgqn 60

atgnaggttt ggtantgatc tatgcactca catctcatgg ggacgtttca tgtggagtgn 120

tcgacaangt tgctgnancn gagaagtgat gatctcagtt gaaaggggtca tgtgaataca 180

cnttacactt gaaaaagaag cacattggga atatcacgaa acgnccacca acatcctg 238

<211> 232

<212> DNA

<213> Homo sapien

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (232)$

<223> n = A, T, C or G

cgaactatTT agactaccta qgaaaattat tttagtatca gaagaatatc aggggtgtag 60

tactcatcag agctaaatga gagcgccttta aaaatgttag tttgtcttcc gccatttcta 120

cagaaagctg caatttcagg ttttcaacct aatagggtgat atttaanaaa aaaaaaaagc 180

aatcgcaaat agccccactg cttttacaaa tcatttttttc cccaacacaa tg 232

<211> 547

<212> DNA

<213> Homo sapien

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (547)$

<223> n = A, T, C or G

cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgcga ttgctttttt 60

```

ttttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
catgtaatcc gcggagttag taactcaaaa cgagtgcac tnggaagtat cgcagccggt 300
nctggatnaa attcccagct tgctngcttg ctncgccggg gggcggtnaa aaaaacatct 360
gcagcccngg ggnaaaaacc ttgcattgt tcttacgtgt ttacgttatt ttatttccct 420
nnagcaaggc nggganttgg ggactcgaaa tggtagctt gggctgggga tcgcccttgt 480
tacataaaaag ncgtccagaa gagggacggg tacaggcngg gantccaaa ggtcagtcct 540
tgccatt 547

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<210> 602

<211> 826

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(826)

<223> n = A,T,C or G

<400> 602

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cgggggggnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
taccattcga gtccctactc ctgccttgct ctagggaaat aaaataacgt aaacacgtaa 120
gaacaatgcg aaagcggttt ctccctagg ctgcagattg tcttcttcac cgccctgct 180
tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240
ctcgttttga gttacaaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300
tagggaaaat tatttttagta tcagaagaat atcagggggg gttagtactca tcagagctna 360
atgagagcgc tttaaaaaatg ttagtttgtc ttccgccatt tctacagaaa gctgcaattt 420
caggttttca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagccact 480
gcttttacia atcatttttc tttctagggt atagcctgtc aggtggccta atgtattttt 540
gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660
aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
cttctcttct taaaatngaa aaaaaaattg tttaaacca naaggtctga ataccaagc 780
nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

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<210> 603

<211> 817

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(817)

<223> n = A,T,C or G

<400> 603

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nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60
agtcttaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180
agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
gtggggctat ttgcgattgc tttttttttt tcttaaatac cacctattag gttgaaaacc 360
tgaaattgca gctttctgta gaaatggcgg aagacaaaact aacattttta aagcgtctct 420

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atttagctct	gatgagtact	acacccctga	tattcttctg	atactaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcacttagg	aggtatcgca	agccgtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcaggggcg	ggnaaanaag	acatctgcag	cctaggggaag	aaaacctttc	gcattgttct	660
tacgtgttta	cgttatttta	tttcctanaa	caaggcngaa	ttgggactcg	aatggttcag	720
ttgggggtggg	ggatcccctg	gtncataaaa	ngtcanaaag	anggtacagg	cggaacncca	780
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<210> 604

<211> 694

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(694)

<223> n = A,T,C or G

<400> 604

cttttcaa	at	ctttttt	nct	cttctagg	ta	tancctgt	ca	gg	ggccta	ta	tg	taattttt	60
gacatctc	ta	ngaatttt	aa	tagaacc	aga	aatgggtg	cc	ag	agatat	gc	ct	gcactaat	120
cttaagtgg	g	gatttatg	ta	tttctca	agc	aagtgatt	aa	ag	caaaaact	ta	gg	cacgattg	180
aaatcaaga	t	cttttagg	ca	anaaaagt	cat	gatgag	tttt	aga	attattt	ta	gg	actctg	240
tggcttttc	t	ttcataga	aaa	tagaaaaaaa		aattgtat	aa	aaccacaaa		gg	tcctga	at	300
agccaaagc	a	actganca		aaaagaacan		agcaggg	gaag	caacacact	ta	cc	ngaattca		360
aattatacta	cc	aggggtg	ta	gtaaccaaaa		cagcattct	ta	ttggcata	aaa	at	agacacca		420
agaccaatgg	anc	agaataa		agaaccccac		aaataaat	cc	atata	ntac	cg	ccanctga		480
ttatcaataa	cna	acaccaa		gaacatat	nt	taagggac	nt	nc	tattcaat	aa	ntagtgct		540
ggnaaaaact	ggg	aaatcca		tatgcagaaa		naatgaaact		agacccct	at	cc	tcaccat		600
acgcaaannt	ca	acttcgga		atgggattac		aaaactta	ag	acattcca	ac	cca	agaaact		660
atnaaancta	ct	attaagaa		aacagatcnc		nccc							694

<210> 605

<211> 678

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(678)

<223> n = A,T,C or G

<400> 605

taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	gggggtgtagt	60			
actcatcana	gctaaatgag	agcgctttta	aaatgttagt	ttgtcttccg	ccattttctac	120			
agaaagctgc	aatttcaggt	tttcaaccta	atagggtgata	tttaagaaaa	aaaaaaagca	180			
atcgcaaata	gccccactgc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca	240			
gg	ggccta	ta	tg	taattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc	300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	360			
agcaaaaacta	ggcacgattg	aaatcaanat	cttttaggca	agaaagtc	cat	gatgagtttt	420		
anaattattt	taggactctg	tggctttctc	ttcatagaaa	tagaaaaaaa	aaattgtata	480			
aaaaccacaa	aaggtcctga	atagcccaaa	gcaacactga	acaaaangaa	caaagcagga	540			
agcaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaa	acagcattct	600			
attgggcata	aaatagacca	aagaccagt	ggaacagaa	taaagaancc	caaaataaat	660			

cctatatatta cngcccnc

678

<210> 606

<211> 263

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(263)

<223> n = A,T,C or G

<400> 606

gtggggtcng	cancagccaa	ctcagcttcc	tttcgggctt	tgtagcaga	eggatcatcc	60
tctagtccac	tgtgntcaaa	ttccattgtg	tgggggccnc	tcgcctcggc	canagatctg	120
agtancana	cntgtcccca	ctgaggtgcc	ccacagcngn	ttgtnttcag	cangggctna	180
caactcgacc	ggcagcgnan	ggctggcaga	antgngcgcc	tnnctcattc	ctacgcngtn	240
ngccgcagga	aggangacag	gcc				263

<210> 607

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 607

ccatgtgggt	cccggttgtc	tt	22
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<210> 608

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 608

gataggggtg	ctcaggggtt	gg	22
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<210> 609

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 609

gctggacagg	gggcaaaagc	tggggcagtg	aaccatgtgc	40
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<210> 610

<211> 27

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 610
 ccttgtccag atagcccagt agctgac 27

<210> 611
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 611
 gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc 46

<210> 612
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 612
 gcacatgggt cactgcccga gcttttgccc cctgtccagc 40

<210> 613
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 613
 gccgctcgag ttagaattcg gggttggcca cgatggtg 38

<210> 614
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 614
 cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca 53

<210> 615

<211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 615
 gcactcccag cctcccacaa tactggcctg gacggttttc tctatc 46

<210> 616
 <211> 1350
 <212> DNA
 <213> Homo sapien

<400> 616
 atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccgca ctgcgagccc 60
 tggcaggcgg cactggatcat ggaaaacgaa ttgtttctgct cgggcgtcct ggtgcatccg 120
 cagtgggtgc tgtaagccgc aactgtttc cagaactcct acaccatcgg gctgggcctg 180
 cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240
 cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac 300
 gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360
 gcggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420
 gtgctgcagt gcgtgaacgt gtccgtgggtg tctgaggagg tctgcagtaa gctctatgac 480
 ccgctgtacc accccagcat gttctgcgcc ggccgagggc aagaccagaa ggactcctgc 540
 aacggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600
 ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtc acaccaacct ctgcaaattc 660
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 cattcccaac cctggcagggt gcttgtggcc tctcgtggca gggcagtctg cggcgggtgtt 780
 ctggtgcacc ccagtggtg cctcacagct gccactgca tcaggaacaa aagcgtgatc 840
 ttgctgggtc ggcacagcct gtttcatcct gaagacacag gccaggtatt tcaggtcagc 900
 cacagcttc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca 960
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 aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaaccatgt 1260
 gccctgcccg aaaggccttc cctgtacacc aaggtggtgc attaccggaa gtggatcaag 1320
 gacaccatcg tggccaaccc cgaattctaa 1350

<210> 617
 <211> 449
 <212> PRT
 <213> Homo sapien

<400> 617
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 1 5 10 15
 His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe
 20 25 30
 Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His
 35 40 45
 Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu
 50 55 60

Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val
 65 70 75 80
 Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu
 85 90 95
 Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile
 100 105 110
 Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser
 115 120 125
 Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys
 130 135 140
 Val Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp
 145 150 155 160
 Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln
 165 170 175
 Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly
 180 185 190
 Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val
 195 200 205
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile
 210 215 220
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys
 225 230 235 240
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val
 245 250 255
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His
 260 265 270
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe
 275 280 285
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro
 290 295 300
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro
 305 310 315 320
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro
 325 330 335
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu
 340 345 350
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu
 355 360 365
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His
 370 375 380
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr
 385 390 395 400
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly
 405 410 415
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val
 420 425 430
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu
 435 440 445
 Phe

<210> 618

<211> 385

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(385)

<223> n = A,T,C or G

<400> 618

ctgtgctgag	aacccaaaagc	tatgancact	gctttttccaa	atgtccataa	naccaacatt	60
tttatcacta	ccaccatcac	ctgggagctc	nttagaaagc	tagtctcccg	ggcaccaccc	120
tggcctactg	aacctaattg	gcattttaaca	agattnacgt	ngaaatctgc	aaagcacagg	180
ggcngataac	agtaccacct	gntctgggtc	ctanccccc	gacccttaca	gtctaactgg	240
gacacaagg	cttnaaatca	aattgcctat	cattaagata	tacaanganc	ntgagaaact	300
gctncaacta	tntattaagg	ngctctaaga	cttagaaacn	aaangcantg	ctgagangat	360
tcaaatatga	ngggggncac	tttnc				385

<210> 619

<211> 869

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(869)

<223> n = A,T,C or G

<400> 619

gatatcccg	gaattcgcg	cgcgctcgac	ctctacttgt	ttagacataa	atgcagtcta	60
gcattaaaga	tcctttaaaa	aaatgttttc	ccaatggtta	aaagacaagc	tcaataaat	120
gaactctcat	acatatgcc	aaattgatga	gtagataaat	atttcagtag	gtagttacta	180
gctttctgtg	tatgagtaaa	catatgggag	aaatttaaaa	cactaaagta	gactcaatga	240
aagcatagta	tcctatgtat	tcgtttttca	gaaatgtcta	atgaaggaag	gaaacaatga	300
atgaatgcc	ttattcctct	tagagtgtctg	ggacatgggt	ttgcctgaaa	acttcatgtg	360
aattttatat	tttgctacac	attacaccca	tcttagactt	atacgtataa	gacataaggc	420
atatcttatg	tcttacatgt	ataataatct	aagcagaaca	aaaaataacg	aaatattttc	480
ttccccaat	ttttgagaca	gatggatttt	cgggaaagat	gtgttttagct	tttaatcctg	540
tggttttgtg	taccacctgg	cacactagag	tggtgtctcta	attcagtgag	ttgtaactct	600
gggtgaacag	tggaaatact	agggtagatt	ttaaaaatgc	taatgctcgg	gcctcgctga	660
agaccaaatt	aattggaatc	tctgnnggng	gnattgatct	ttttataatc	tttctanang	720
attctaattg	gcttccagg	atgaaaacn	ctgntggagc	tnggaacctt	cctttagttt	780
ggagaaaccc	cgatgagggt	ntnttaggcn	cgcctntttt	ttggcctggg	cttccccct	840
tatntntttt	tgggaanggnc	cnaattttt				869

<210> 620

<211> 339

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(339)

<223> n = A,T,C or G

<400> 620

gngcgggcct	cncctgctt	gctctcgtg	ccgacgctct	ttttccacca	gctgtaggan	60
aagcccgaag	accactggtc	ccccgggtag	cccaagtacc	actggtcctc	ctgggtcctg	120
acgctncggg	tcttcctcgt	ggcgtagact	gccagcttcg	gagacccctc	agccccctcc	180
cgctttttctc	caccccagga	ggccatcagt	agcgagctac	tgccctcgcc	acaacctccc	240
agcangatag	cccgcggttt	ccaatctgcg	aaaggaggac	cgccnagccc	gaaatgccna	300
gcccagcnat	cactgccacg	ccgagccnag	cgctcgtgc			339

<210> 621

<211> 267

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(267)

<223> n = A,T,C or G

<400> 621

gggngcatg	gtcccnggta	gccaagtaca	tggtcctcct	ggctcctgac	gctacgggtc	60
ttcctcgtgg	cgtagactgc	cagcttcgga	gacccctcag	cccctccccg	cttttctcca	120
ccccaggagg	ccatcagtag	cgagctactg	cctcgccac	aacctcccag	caggatngcc	180
cgcggtttcc	aatctgcgaa	aggaggaccg	ccnagccaga	aatgccnagc	cnagcgatca	240
ctgccacgcc	nagccnagcg	ctcgtgc				267

<210> 622

<211> 847

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(847)

<223> n = A,T,C or G

<400> 622

cttangntgt	cgactgacgt	catgcatgan	ttaaagcaga	ggtttggtga	aatttatgaa	60
aaatacaaaa	ttccggcttg	tcctgaggaa	gagccactac	ttgataactc	tacaagagga	120
acagatgtga	aggatattcc	ctttaatttg	acaaataaca	tacctggttg	tgaggaagaa	180
gatgcatctg	aaatatctgt	ctcagtggta	ttcgagacat	ttcctgaaca	aaaagaaccc	240
agtctcaaaa	atatcatcca	tccatactat	catccgtact	ctgggtccca	ggaacatggt	300
tgccagtcac	cttctaagct	tcatttacat	gaaaataaat	tagactgcga	caatgataac	360
aaactaggca	ttggacatat	ttttagtaca	gataacaact	ttcataatga	tgcaagcact	420
aagaaagcaa	ggaaccacga	agtggttacg	gttgaaatga	aagaagacca	agagtttgat	480
ttgcaaatag	caaaaaatat	gaaccaaata	agtgcacgtg	gcagtacaaa	taactataaa	540
agcctgaaac	ctaaattaga	aaatctgagt	tctttaccac	cagattctga	cagaacatca	600
ggaagtatat	ctacatgaag	aattacagca	agacatgcc	aaagttaaag	aatgangtca	660
acacattaga	aanaagantt	ctgggctttg	aagaaagaaa	atgttccact	tcataaagaa	720
ggttgaaaga	agaatgggag	agccnnga	tttttgcccn	gaaattttcg	ggaacctac	780
tggtatgggtc	nactggttg	ccatgaatga	ataatggact	aatcnnccaa	ttcctnggga	840
agggaat						847

<210> 623

<211> 681

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(681)

<223> n = A,T,C or G

<400> 623

aaaactgtac	tgcgcgcgtg	catgtcgaca	ctagtggatc	caaagaatcg	gcacgagcga	60
aaangctcan	gcagcccggc	tggccgccgc	cgctcctccc	cccaggaaag	ccaangtgga	120
ngctgatgtg	gctgcangag	ctcgtttcac	agccccctcan	gtgganctgg	ttgggccgcg	180
gctgccangg	gcggaagtgg	gtgtccccc	gtctcagccc	caaggctgcc	cctcaciaag	240
cactgggtgg	ttgcctccac	tgccaccttg	ggctccgaac	ccgctcccct	gctgtggang	300
cccacogtgg	gaatccaggt	cccaggtgg	actgcctgcc	ttgccctcac	tgccactct	360
gcccacactt	ccctgcctag	anaccgggaa	ggggctgtgt	cggtantggt	gcccacctgg	420
atgtggcagc	accgactgtg	gggggtggacc	tggccttgcc	gggtgcaaaa	gtgggggccc	480
ngggaaaaagc	acctgaagtg	gccctgaaaa	atccccctt	aatttttccc	caatttgggg	540
ctcnaacaaa	aggaaattgc	tgaagccaan	ggtaccaagg	tcacccctaa	ggccaggggtg	600
aaaaggtccc	aaaattccaa	tncccacnt	ttgggcttnc	ctcttggaac	cccggtcccc	660
tctcntgaan	ttttaaaaaa	n				681

<210> 624

<211> 661

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(661)

<223> n = A,T,C or G

<400> 624

attggtctta	ctgtaccacc	gggtggaaat	cgatggccgc	ggcgtctaaa	tatccgattt	60
tttttttttt	tctctttctg	actgtccatg	gacaaatgaa	actaacttaa	tctaactaaa	120
aaacacaact	atattttgaa	gattttctat	ctgcactcaa	ggacactttc	cacncggttg	180
ttgttacctt	ttggtcttgt	ctctgaacat	gaaattnatc	tcaagggatt	ngatttctgg	240
acctctatt	cctgctatgg	gtttgatatt	tcttgggctc	cagggccact	gttgcatggg	300
gntgacagnt	acctcctagc	ccatancctc	ctatcttggg	aaacaaacct	aacaactacg	360
tgtaccttcc	atagatctct	gattgagttc	cagtatnccg	ttgctcatgg	gcgattcact	420
tgaatccgtg	attggtgcca	acaatcctga	ctcatgggnn	aatggatcct	atcacgttcc	480
cctgattngc	aacccttgta	tacatanatc	taatcgcata	gaatctagcn	tnggntatgc	540
gcggctacgc	tatcagggnt	tgntaactat	ngcatggcta	cgaancctga	tcatgatcna	600
gggtcatgga	ctcttatcag	gggggttggg	ccngccttct	ttttcnnacc	ttggtaaaac	660
c						661

<210> 625

<211> 181

<212> DNA

<213> Homo sapien

<400> 625

gcaacaatca	gatcatgtta	aagtaaattct	ccattgccct	ggatcacttc	aggatttaat	60
tgtccaagga	gagcagggtt	ctcctgtgaa	aaaaaggtgg	ggaaatgttt	gagagtaaaa	120
aatacaaaat	tcaaccggtc	gaaaatacac	cactccattc	agtgtctctac	cccataagc	180

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c                                                                 181

<210> 626
<211> 181
<212> DNA
<213> Homo sapien

<400> 626
gcaacaatca gatcatgtta aagtaaactct ccattgccct ggatcacttc aggatttaat      60
tgtccaagga gaggagggtt ctctctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa      120
aatacaaaaat tcaaccgggtc gaaaatacac cactccattc agtgctctac ccccataagc      180
c                                                                 181

<210> 627
<211> 813
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 627
accaagctgg agctcgcgcg cctgcagggtc gacactagtg gatccaaagt gaacgtgaag      60
gtgagcagag gagaacttgc gatggcaaag ttaaaaacaa gaggagatga tggctcttgg      120
gtggcacagg atgttaaaaa aattctctctg tccttaagga gttactgcta tttgagtaat      180
gtgccacttc cctacatagc cttctatgca gaaatgctat atttccactt cacaaccag      240
aacgtgcatt ttatttttaca tttagaggag gaacaaacaa ccagaaggca aaaactgggtg      300
cattattttt tgcaattctc ttggaaagag ttcgttttta acttctgctc agacagcaca      360
caactactgg gaatatatatt taatttcaaa tctgatgtgt gacatctggg aactcattta      420
ttgctaatga agttttcaca ggaagcagca gtcaccagta gctcatctta tttttcagtt      480
ggcaaagtgt tgtttacctt ttattggcct gcatcgggtg ctcttatcac aggatattta      540
attagaaaac gcaagtagcc taacatagaa nagaaatgga gtggtagata atagtagata      600
gaatggctaa atatttttat tacagtgtat taatatcact gnaattttatg gttaaaaatt      660
atgtaatact caaaagggaat tctcagactg gcgaaacagc tggnaacag ctntcacagg      720
gctttanact cctnttgagc tttccccctg ntggacttta gtcttccttt tacncccgna      780
gttnccattn nttaccaatt gtnccgggaa ana                                                                 813

<210> 628
<211> 646
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

<400> 628
tttggngngn ggtgtctcnt ttgggtggac tttttgggtc gtagggcccc aaggccgtta      60
atcccgtaat aacggaagac gaagaagagt cagaagagtg cttctataag gatcgggacg      120
agactacctt agaggaataa aggaaaaaag cagaggagga agagtggtag aaggagtcag      180
aagaaaccca cacgtcgttc tgaacctgga gccttatcaa aaaggtctag ataaacgata      240

```

```

gcatctcga tctcgagctc aagaggtagg tttagagact tctcgctctc gagagcgaaa 300
tggaagatct cgacgacgat aagaagttaa agtgtagagg gtgcttgagg agcgcgaggga 360
aggattctgc ggagggaccc atcgacgtag agacttgaag gcctactaag gtccacaaga 420
agcccggtct tttctccgaa tggtcggagc gtacagtatg cgacgtcgat cggcagacaa 480
gctggcggtg gactcgaagt gttcgggcca atcgacttat aatagtcgag cgctagtaac 540
gtaggaacac gaagagtagt cgaaagaaaa cgtttagtga gggaaaagat tagggaaaaa 600
ggagaggctt aataactaag acacttgagg ctagggccaa cgcgaa 646

```

```

<210> 629
<211> 617
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(617)
<223> n = A,T,C or G

```

```

<400> 629
gccccnccc cctcctnngg gcttatnngg acagaccac gtagtactct aaatcttctc 60
ctacgccgga caacggaccc tataccaatt cgaatcttgg aactccgac cgccggattc 120
tcttccctt tgggttccc cttctgtctg gtacccctcc ctagtctct cctacacctt 180
cgtaccgtcg atatatagtc gcgcgggact agcctattta ggtgtcctag actcgttatt 240
gatccactca ttagtctagt actatgcgtc acgtatctta gttgcctaag agggagatta 300
aatcctccac aagttccgac gaattcctgg actctcgtac tagcaaaactt tcttatgagg 360
cttccttgta tatcttctgg atgtttctcg tgtcccggtc ctccgtact actagagctc 420
cttgccctat ctctagaagt agaggactct cgggttcggt ctccaaatct agcgctagag 480
ctatcgctac ccgctcgatt cccccagcgg aatcttgaaa cctgaggtag tacacaaacc 540
ctcncatct tccctcgggt gctccttctt ctcaccccc cttcccgctt tctcgggaan 600
gaatctactt tancttc 617

```

```

<210> 630
<211> 644
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n = A,T,C or G

```

```

<400> 630
cnntcggent ggggtttntt ctgagnnncc ccccccccc ccccccaaa cttacaccca 60
ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgatatag 120
taaagtcctc tacctcgga gtagagaatt cggtatTTaa attcagggtt agaggctcgc 180
tcgttagatt tatagtttag gtttagaatc ggaaaccttc gatcttctt agaagggtaa 240
taagtgaggc cctaaatccg tctaaccaag gcgttaagggt ccgtacctaa acctagtctt 300
atcttctatc aggcgaccca atataggtag gttctacttt cgtataggcc ttaagggaata 360
gttcggtagt tatcgaaggc actcctctct aggetaggct tttctcagtc ttagtactcc 420
gggaccgtcg tcgcanaaat atcgatggac ggtaggtatc tccgcgttac gcgtcgggct 480
agggatatag agcgaattat cggcgagagg cggtcgctan gaatcgggtat caatatgntg 540
ttctttaccc tacggatatc ggagaaaaac ataaaacctt ctnaccangg ataagggtatt 600
atcggacccc taaaataaca gtaacattta gantactagt accc 644

```

<210> 631
 <211> 526
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

<400> 631
 cntcggctt ggggtttttt ctgagccccc cccccccccc cccccccccc cccccccggc 60
 cccatagccc caccggnccc acccaaattt taacaaaata aatntaccta tcgntcacct 120
 atcccnegta tcgngtaggt cggtagccgg accgnggac ncnacgattn ttcgggtcgt 180
 cnccttaan acggncccg agccnccgga anaaatacta cgagngactc taatntagca 240
 anaccgcgcg tcnattanta gcacccctag tcttccaatg ncnnggattn ngaatccttn 300
 naagttatcg ggtagaacgg gtcccggtcc cccgcctct ttncaattaa cgcgggttac 360
 aaantcggtt tctaaattcc ncacgaattt ngncggcaac attcncgggn ccttattanc 420
 cntttccaac cccgatacnc nagctcgatc gggctttanc gaatccgggg tcnccccga 480
 ngantccggg tcttttgagt ngctctagga cggttacgac ggagga 526

<210> 632
 <211> 647
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

<400> 632
 tttggngggc gggngctcat ttgggtggac tttttgggtc gtaggaacct ggtatgaggg 60
 gtgttttgag tttcttcttc gtctctctcg ggaggttcgg tttcgattga gattcgggtt 120
 cgtctttatc ttacgaggca cctgatatt gttgcgttt ggtttggtg tggagagttt 180
 tgtcctactc tagcgggtca tgcggatgat atgtagcctg cgtggcctga tagtgatgtt 240
 gtgagctga gaggggagtt gtgggtggtg cgggcggagt aggaggggtt ggagcaccgg 300
 gattgggaga tatagaatca taagtgttag gtataggtag attgagcgag ttcgtggaat 360
 tcgtgtggtc atcataatta gagtgaggat gggctctata tttcttagag gacgcacggt 420
 cgtgattcgg ggtttgatgg gtgttcttct tgtgggcacg attagcttgt tcatgatggt 480
 aaggaccata ctgtttcgaa tgaggattcg tgtcttcgga ttgttggtga tattgtggnc 540
 tanactattt agtgaagcc ggaggtggtt tgccgtggtg gtagtatccga nnttcattcg 600
 ganggtatgc gtgcggagcg gtccttgtag acattccgga aaaatgg 647

<210> 633
 <211> 630
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(630)
 <223> n = A,T,C or G

```

<400> 633
tccttcggct tgggtttttt tctgaccccc ccccccccc cccctcgga aggcctctag      60
gctcccaccc gtctctctaa tcctcaggaa ccgatccacc caaccaactt actaatgtcc      120
tacagtaaac acccgagaat ataaacccac acctaggcct ccaatcctac cagggaagca      180
agaagccgta gtctagcgta ttacgaaccc gagatagaga cggagatact tagttttatt      240
ctctcggaat aggaaagacg actggggagg gaatataggc tagcgcgggg ataggggcta      300
tggcggatat gggggcgggt cgctctctta ttcttctata ccacgtcaat aggaatgtag      360
atatacctag atgttcccggt agaaagagac gttagaggtc tccgaagcta taaaggagag      420
gcgcgaaaga acttcgtact ctagctttat ataggtagtc gctctagtc cataagcgac      480
gagagatcta ctagatttcg gtatcgccgt cgtaggtatt cgaaatagtc ttcttccct      540
tttcgatctc ctctctatac tacatggnga ttatagtcnt aagatagtca ggatattagg      600
atattagtta tatgaagttc gacgggacgg

```

```

<210> 634
<211> 647
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G

```

```

<400> 634
ccntcggtt ggggtttttt ctgaccccc ccccccccc cctccactaa gancttaacc      60
caaccctata gtttactcgt ataggggaat cgaggagaaa taggaacgaa gagcgggtga      120
taaagagaaa gtactttcct ttatatgtta agagcttagc gtaatgactt tcgttatatg      180
gctagtgtat tttatccggc gttatagggc ttagttctgg ttatctcggg tctaattccc      240
ttagtatgct cgggagttta acgaggtcac gggatagcgc gtaccctttc taaggttcct      300
ggaaagctat tcgttattta tcgcgattct cgaggtcgaa aggatcaagg atcttccctt      360
ttactaccct agtcgggtta gcggtcggtc aaaactagt tagtaccttt acctcctcga      420
aagttatagt cgaaacaacg tattagtcca aattatagcg gatagatcga gacggttcct      480
tctcgggttc tcagccggta atccctctat ttgggggtct tctccctctt cccctttgtc      540
ttccgcctta gcttccaagg ttctcggaa gcgaggggtt ctacttaagt cgntagcgtt      600
ccttataaac cncctacagg cagaccccc tgtaaacggc tcgggggt

```

```

<210> 635
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 635
ccttcgggtt ggggtttttt ctgagcccc ccccccccc cccgaaactc gccttaccct      60
agatacccaa agaatagttc cactcaactt cgtctaagta aaactctaga acttccaaac      120
ataaaaagact tcgcgcgggt agctacacag cctacgggaa tctcacgaat cccgattcaa      180
gtcccactct cgaccacacc ccggtatcgt cgttttccca taccaatgtc gaaaaataaa      240
ataaaatcca gtcaagcccc acggtaagcg ggggtagggc taggcgaaga ggcaggaacc      300
gttcgaggcc gggggtttt aaaatacaaa acaactactt aaagtttacc ctttctaag      360
tcggggggcaa cggttaaagc acgcctctaa agtactactc gtttcgagaa ggggtagtca      420

```

```

tctcccgcat agagactctc gcgtatatca actcgcatcg cttctagcat tccgacggtc 480
gcccgcggct acatatcttg cggattagct ccgagggact ataggggttaa ttagtctagt 540
aaattctctt agaggatagt cggggtcgta gttaggcagt acgaggggac atggngctgcg 600
tcgtgctcta ccttgacagc atactcttat aaacatcttt ttcct 645

```

```

<210> 636
<211> 643
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(643)
<223> n = A,T,C or G

```

```

<400> 636
ccttcggctt ggggtttttt ctgacccccc ccccccccc cctagcggaa aacaatcccc 60
accgagattt tattaatcgt aaaactcgcc ttcggtacca agtcttcctc cttcccgtaa 120
cctggctccc tcctagnngc tttaacgaacg tccctcctct tcttacggct cggaagtgg 180
tacggttaaa tccggaggng gggctaacga atccaaggct aactcctctt anagtttggt 240
gtccncnctt ttagtaagga tccgtggagg gcgagtattt gncccccggc ctttatnta 300
tagttcccta gtacgataaa gntaccggct atcctattac agcggataaa agttatttan 360
agggccgacg tncnccgtag acaggctaca gctagnngag gtaccgcctc cgactantcc 420
gttgnttccg acaagggnagt ttcggttaac tccacaaact cctccgccga ctctanggtg 480
gggacggcag ttcccncgtt tagtgtgctg tatagagaag ggcatttgag ttggacgta 540
cnttttaaca taggttattc cgttttaggtt cttgcgggcc cgtgggggta gtnncnccggc 600
gcgttnntat cggcgatttt cgcgagtttc cgtttccggg tnt 643

```

```

<210> 637
<211> 631
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G

```

```

<400> 637
gggttntctc atttgggtgg actttttggg tcgtaggaac cggatatgnag gagtaggagt 60
cgctgggaag actagaagtt agctacggac gattagtgtg attccactct taataacgag 120
taatcgttta cgtcgggttg gtgtttcggg gttttggaga gtaagcgtag ttgtggagtt 180
tcgcatatag gtccccttac ttccggcgac tcgtcttctg tcggttagggt tattattggt 240
catccttcgc attagtagta gggttggctg gataaatcga tagctattct ttagaattcg 300
tagtcggaga attcgtgtac gaagtccttt aagttcttta agttcgcgag taagacgtgt 360
acggttattt tgtcgtcgac gtaggtgtcg tttacgggag tttcggttta ggggtttacg 420
tagaacgtta ttaagcacgg taatacgata gaggattacg cgacgtattc gtcttagaac 480
gtcgattttt cgaaggcgca tttgttatcg aaggggagtc cttggagaat cgagatattc 540
caagaatatt acggagatta cagatcggaa ggctcccagag atcggacgta ttaccggtct 600
cgcccgaaac gagtaggtat cntccggata a 631

```

```

<210> 638
<211> 606
<212> DNA

```

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 638

```

cccccccccc ctcaaccatc nattccccac ctcaacgcga attacggttt cgaaagtcga      60
caataagtcg ggtagagtag agggaaatcag gggctggtan aaaggaccac gggcggaaaa      120
taccggtctc cttccgggga gcgacgtcgg ggaaaggga gagagcggtc tagttcgtag      180
gcaaacagggt cagaaaagtt aaggttaaag gtcggagggg agaggatagc tagtacgctt      240
agttcggggc tcgggcgcag ggccactttc ctctttcgcg ttcctttact ctgcttacga      300
gttcaggctc cggagttccg cgccggaggt cgtagcgacg ctaggaaatgg ggactcgctc      360
agtccccggt tacccttcgg gattctatgt tttagccgat agacggagac cgggtagtag      420
ggttccgctg taccgccact cgtcgccctg atccggcccg ctccgcttaa gggcgatgaa      480
agattaggta ttagggctct acgggacgag gcatagggcg ggagaagggg ggaggggtcg      540
ggggtcgaaag ggantaagaa atcgcantcg cgcggggtcg gtagganccg aaatttttct      600
cnnctg                                           606

```

<210> 639

<211> 592

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(592)

<223> n = A,T,C or G

<400> 639

```

tcctcgggtc tgggtttttt ttgagcccc ccccccccc cccccgggaa cgagaaaaca      60
atcccaccct accgcgggga gtgggttgna cgcttagttc tagaatctc ggaatcgtcc      120
tccggcggtg gtagttccgg cgattccgag tatgccgaag tgtatcgctc cgtctagagg      180
ttggtatctg tttatcgaga tgacgtatt gactcggatg ctttcgaagt agggggatag      240
gcgcatagat acgctccgc ggtgtcctct gaagtggccg catccgtgga cgcagcgtag      300
acagctctgg tggacgataa cggcttctcg tactcctact ccggctatta tgtagagag      360
gacttgtttc tgaacggata taccattagc gaagggttac cctccgctaa cgcaggcgtt      420
tctaacagtt cttccgggag ctccgaattt agattgacgc ctccgcagca ttgtgggac      480
ctcttcggtt agccctcttt ataggatttc tctccgccc cgaaagangg ctggtcgtcc      540
ccggcangta tgtctagctc gaacgctttg ttactccttt gttttcgaaa na              592

```

<210> 640

<211> 637

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(637)

<223> n = A,T,C or G

<400> 640

```

ctttgtggcg gtgngtgtct catttggttg gactttttgg gtcgtaggct tatccgggtn      60

```



```

gggctcccga agtagcttag gatcgccggc tagttccggt cccgcccgtc gaaagcgcg 120
ttcggcgggc ggccccgcgt tcgttcgcgg gctttaccct catagagtgc caggtctcgg 180
ttcttacggg ttcgtcggcg atagatttta cggcgagagg tcggtatctt cgcgcgttta 240
cgttcgggtcg gcatctacgc ctagttcaca ggtagtttat gcgccggagc gcgtgacgga 300
gaggttatac gggacgcgga agaaccgcct ccaaatagact agtacaggct cgttcggggc 360
tagatctcct cgctcggtcg gcggttctta cttctagggc cgctctacgg ttttaaggcg 420
tcggttagatc ttagaaacta tactcaagtt tcagtcggaa gaaaggaaat agagagaagg 480
gtaaacgatt acctccggtt ctagcccttt ttactcgcat aacgggagaa cggggtccgg 540
ctctcagata cgctcgcga gacgtcgcga ttcaacttta acctccgcta gggcatccgt 600
atacggttaa cgcggtaaaa gcgacctcgg aaacctc 637

```

```

<210> 641
<211> 649
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(649)
<223> n = A,T,C or G

```

```

<400> 641
ctntgtggcg gtggttgtct cagtttgggt ggatttttgg gtcgtaggna acctggtatg 60
aggctctagtt tcttcaacga ttcttggttc agttacgcga cctatcctt atcttacaat 120
gtcttctaca tcaggttcat caattaatat atcaattaca cattaacgac ggtgtgacgc 180
aatatgagaa agtatacatt aagggttatta tatattattc gcttaaaaag gttcctgaca 240
tgggacaact tcacccacca ttctagaagc cccccctcct gtaggacccc ctcgagttcc 300
ccattatctt agttcagttt tcatttttta accaggaggg tatcggtttt taatagggtac 360
tattttgtca aacttttcag aagctttatc ttcaaataata cttgcaccat ctgtactagg 420
agcactaact attcgagtct attacagctc aacagaaaat aattgaaatt aaacaaccta 480
agtatcgctc accataaccc catcgggctc tcaccccat tcttcataag ttctagagca 540
tctcgagctc tttcctatta ccttgatgg tactcatggt ctaatacccc ccgcagttat 600
aggtccttat ggatcctatg ctaccacggg tctaatecct tctatcacn 649

```

```

<210> 642
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 642
tccttcggct tgggtttttt ttcgtcgcgg gttactatta tcgattgtta cttgtaaagg 60
cgatactccc accgctcacg atattagacc tgctcctcta gaagcgaacg gcgataggtc 120
tactcggccg gcgaagacgg cgaacgggta ggaggagcca tatgcaaccc taacggagat 180
tataagtact gggaaaaata ctagtattaa ggtagcgggt taagatagggt ggagagacac 240
tattcacgag cataagcact tagaaggctt tctcgaggag aggtaggcta cggactacgt 300
tcctttcttc tctagcctcg agagggagta tagatgatc gcaaaagaga atccctccta 360
tacgctggca taactagacg acgcgtcgtc gggaaatctc gccaaccta ttgcgacctc 420
caaaaggaag attgtcgttt catagaacgc taatactccg ggtcttcccg aatcatagcc 480
gcatatcggt aagaagacgg taaaatcgcg cgattctaac aagattctgt agacttaagg 540

```

```

ctaagcacta gaagcgatct cgattccgga tcttaagatc atactaatag ttcggtcaca 600
ccagacgacg attagccact agaagcccta ctccgtngaa accgg 645

```

```

<210> 643
<211> 586
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(586)
<223> n = A,T,C or G

```

```

<400> 643
ctttgtggcg gcggtgtctc atttgggtgg atttttgggt cgtaggaacc tggatatgcag 60
ggtccgcccc gaattaaaag cgggatcccc aaaacgnngn ttcgcaagaa gagaagaatc 120
atagcgatag anctttcata gtacaaaggt aactaagagg aaaataatgc agattcagaa 180
ctagttgcc aattagaact cgattaggcc aaggatccga gcctggcgct atcacttcgg 240
gacttaagct acggtagagc agtcggtcct gaagcatagc tcccgtagga cgtaggaaac 300
tagtccggca cggaggacat actctcgagt ctcggaacgt ctatttagaa tataaacgca 360
ttaacctcag aaggcgccga cgcggttact ctctagggaa ctatttcatt ccttccggag 420
ctcccctatt ttccaacac atataccggc aaagggaaaat cttntgtcct cggctctaaag 480
agagggaaaa aaaacgatat ctaggttcgg gtttatccat ttaaaaaanat ngacgcgact 540
actccctttc aaaggggagt tccccctagg nagagttcaa cngaag 586

```

```

<210> 644
<211> 646
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

```

```

<400> 644
ctttgtggcg gtggttgtct catttgggtg gcatttttgg gtcgtaggaa cctggtatng 60
agggctatth gacttgtttc tcaaatacca tggatatggt ggtggcgtgc ggggtggcgg 120
tcggttcggc gggggtgggg gtcgtcctcc aaaggagttg ctagagggct tttagtggtt 180
ttagggcggg aagggggttag agcggagaga cgtcgtcgtg gaagcttctg gcggagcgcg 240
agaaggtagt tagcgccggt tcggaagatt ctacagaattc gagaagaggt agtggggcgc 300
ggagagagag tttctaagtc taaacgtaga ggtcgtccta gtcgggcccgg gagtagcttt 360
taagctagag gtcgaggtcc tcgttttaggc tccgggctct tcgggcagta tcctctttct 420
cgaggaacgg agcgaccgac gtcgtagccg gaccggtcta tccgtacgtt tagagatacg 480
ctcacctcca cgggcggtata tgcccgtata cgtataaacg cgtaatatata tcgcgcgtaa 540
aacacgtata cactatatata acgcacgtata cggaccgtat agcgttatata gcgcgcgtat 600
attaattttac acttatatac gcgttaaacac gatatatcac acnccg 646

```

```

<210> 645
<211> 654
<212> DNA
<213> Homo sapien

```

```

<220>

```

<221> misc_feature
 <222> (1)...(654)
 <223> n = A,T,C or G

<400> 645
 nccntcggct tgggtttttt tctgaccccc ccccccccc ccccccggctg acaacgtgcc 60
 caccgttgcc atcccagcat agctggttcg ttctgtttta ttcttagtag tttagttcgc 120
 ctatagtccc tcgtctatcg tctatcattt aaggaggcgg ggctcgctct ttagggcggg 180
 tatcttaggt attcttctgg tttcggctgc cgtctcggag tctggtcctt ttgctttcct 240
 ttcttggtcg aacttcgtgt ttgatcgcgt tgtttctttg gggtcgcat acctaagggc 300
 cacttcgcca acaaacaagt ttgtgtagtc gtttctatta gggttcgctg gccggcgctc 360
 ttactggttg gcgattttta acgcggtttg ttttaatttg cttcctcccc tagggctcgc 420
 tcgggtctct ctctgttcgc tgctctcgtc cggcctttgg tgcggggata gctccggcta 480
 ttanccgtgc gtgtccgtgt ggnttttgtc caatgtgaag gcctaggggt gccgggcttct 540
 ttggccatgg nttccccctc tgtgancctt aggggtaacg antcgtatt naaggctcggg 600
 gggtggnata cgttntangg gangcctgng tccgntattc cttgttttgg cctn 654

<210> 646
 <211> 645
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(645)
 <223> n = A,T,C or G

<400> 646
 tccttcggct tgggtttttt tctgagcccc ccccccccc cccccacgcc aagtacacag 60
 acccaccaaa aacaacgtca acacaacttc ggggtatacgg accttaagag agaccccgtg 120
 gtagacccta ccacagccat ccaatagtc aacaacaagg gcgcacccaa tccatccata 180
 gagctatcaa acaacggagg ggaaaggaaa gagcagggtc aacttagcag agatcgaagt 240
 cggcactaat tcctttcaag tactcgctcg gctttagatt cggggtaaag tccgctctca 300
 aagggccaac gaggttttaa agcgaccccc gtatcgagtc ttcttcgtat tcattaaggc 360
 gttaaaggta cgagacctag aagagagtag aattagccca ccaaategcc taaaccggca 420
 aaaacgacca aaagtcaaag acccttaca atatacctt aaaacgcaa ccccaaaaac 480
 gcgatcagta acgcacgtac ctttcccacg cttttcttct tttcactctc caaaacaaac 540
 ccgaatatct agcgcaaaaa atatacggag gagaattaga agctattacc cgaaaaaaaa 600
 ncgganangg antaaatngt ggggaatana cgtttggttt ttctg 645

<210> 647
 <211> 753
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(753)
 <223> n = A,T,C or G

<400> 647
 accttacctg gtaccggggc cccctcggag tttttttttt tccaaataca actcagattg 60
 tatacgaaaa gctgataata cattgacttt tgctgtttta atcccttgag cttttgataa 120
 tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc 180

```

catattgatt agtttgattt tatgggtgatg ggatcattgt gtgttaactg tattaagaag      240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatttaa      300
aagcattttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa      360
ttgaagtttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat      420
aaatctgagc tatttcttgc ctggagaaca agtgttattc ataataattt aatagcttct      480
gaggtgtttt gttcatgtga tgaaggctta tccacctgtg atcaattcat gggctctgct      540
ttgtttaatg tagtcagggt gttaatacna gacttaagag tcacctact gtgataagtg      600
gtgagtgaag attacatgtc ttangaaaat tatactggga atatctctga cattaatggg      660
tttaaagtgt ttaaggctag gggatgatgc aatgganaan atncttccaa angtttctg      720
ttgtttatat ttgnngaagn catnaagana ccg                                     753

```

<210> 648

<211> 383

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 648

```

gatatcccg ggaatgcbg aggcctttn gcttacgtgt ttaccgcbg gggcaaagcc      60
ttgncaaat cccggccagc ggagcggcg ggggtggggac tcacgggaag ttaaacagcc      120
tcgtcggcgt cctcgagget ccaaaaccag gctctaggcg gggacgactg cagccgttat      180
ggaggccacc gcggtacgg ccgcggctga ggctcccca ggtggagcgg tggcctggag      240
gggaatcttg atcctgggac agccacctgt caagaggagg cggagcgtca tgcctctgga      300
agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtcttg cagaggaaat      360
tgaatgctgt ctgatgctac aat                                     383

```

<210> 649

<211> 349

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(349)

<223> n = A,T,C or G

<400> 649

```

cgattgtnta cnagtcttag agtaagctta agntcgn tacgagctcga tccactagtc      60
cagtgtggtg ggaattccat tgtgttggtg cactagtaaa tggatttagc tagacanagg      120
anatttacc ctttccattt agcacagtga gganaggcta nacagctagg atgcaataaa      180
aaaaatttta atgagaaatg tgtgtggtag attaatctta ttaattctca gttatagatt      240
aaaaaattta agtaccncat aaatgccatt tgcctttgct aangntacat ttttatgaan      300
aangacntg catacnaat ganatactgg actttnngna cttgangga                    349

```

<210> 650

<211> 306

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(306)

<223> n = A,T,C or G

<400> 650

cattgtgttg	ggagcatcct	tccatcagct	cccatgagaa	attctctgtt	gggtttaagc	60
aatccccaaa	tatatcatat	tgacatgaat	atatcatctc	ctcaatgtcc	agcattagca	120
gacaagatga	gtgotgaaga	tgatataact	cctacctctt	atgtaggcta	gaggtaaagt	180
ctggctctgc	tgactgtggg	gacataccga	aaaggaatgt	gggttaatat	cagangacct	240
ccctgcagat	ccganantca	gggncctggac	tttctgggan	aggaagcnaa	aagttatntc	300
tgaacc						306

<210> 651

<211> 769

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(769)

<223> n = A,T,C or G

<400> 651

cattgtgttg	ggcaggggtca	tttctaaggo	atgggctgga	agctttttatt	taaaacttta	60
catgtccttag	aagcaactctg	gttggttgcta	ggcagacaat	tttacatctc	ttgctataacc	120
agttgcatga	agttcatcat	gcataattggc	tgtggaaaac	cttaacagca	tcattgtcata	180
aggtttcagt	aaggtttaaa	tgaaatcatg	tattaagcac	ttagtatagt	gcaccttaaa	240
tgtagcttc	aaaacaatga	caacctaaact	aatggttgaaa	gaagcttggtg	tttgtaaatt	300
atgtcttatt	gaaagatgtc	atcaaatcct	gttattttcta	atcccttaaa	gtctctcaat	360
gtatttcttt	ttgccatatac	caatgacagg	accttagttt	aagccagtgg	ttctctcaac	420
ttctaatacca	gagataacctg	ggtgtcccca	agaccttttc	agagcatcct	tgatgtcaaa	480
accattttca	taataatatt	aaaatattat	ttgtctcattg	tactcttatt	ctctcccaaa	540
tattcagcga	gttttccaga	agctatataa	catgtggtaa	catcttatca	ctctgacgat	600
taatagaata	tngnnttttg	gattcttgng	tttaaaattt	tctcactttg	gggttctaatt	660
atggnnacga	ttaatagata	tggnctccat	gaccagangg	ctttaaagca	ntcaataatt	720
tttaagagac	taagnactat	cctttaaaga	tngngaactc	catcttaatt		769

<210> 652

<211> 267

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(267)

<223> n = A,T,C or G

<400> 652

nnangccctt	taaccattgn	ggcctccacg	cnntgggggc	cgctctacaa	ctagnggatc	60
cgcnaactcta	gnanaangat	tggtcttnt	gggntgggcc	ggncgggctg	gggcgttaag	120
cggggctggg	cgcgcgccgn	ggttgnacna	ggcgcgcccg	ccncacacn	cccgagcac	180
cctcnttgcn	gcctncccc	gtcaccccg	cgcgcgccgn	tccgcttttt	ccncacccan	240
agcnctnttt	atctntgtct	cctccgg				267

<210> 653
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 653
 ccncttnacc cattgctgga ctccaccgcg gtggcgggccg ctctanaact agtgggatcc 60
 ttncnatgag atgngcgang gaggacnnat ttgctatnct ggatggggct gantcntnta 120
 gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg 180
 cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg 240
 ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat 300
 ggacntatca centanaggt acanntnccg caccacacac cngcttgcnn cctgacgctg 360
 gactggatcn cttaggccac caatnccccg tttncacat ncctgggach ctananatac 420
 tcganggggg gcccggtanc caattcgccc taatactgag ccttgntacg nacgctnact 480
 ngngtcccta ttanaacggt g 501

<210> 654
 <211> 710
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(710)
 <223> n = A,T,C or G

<400> 654
 gcgnctttan cncatgctgg gctccacgcg gtggcgggccg ctctacacta gtggatccca 60
 aactgagtc caccacagna aaactcanca ccaggcagac cccacaactg cagaatccag 120
 gctgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct 180
 caaggnttta ggtttgcgtg gtanactcaa tctctatctt tcaccactgc cagcctgact 240
 tcagagatcc tgnctctgg acagtcctca gtggcaggca actctcagga gcctcaggnt 300
 tttggcacat cccagnacca gccagctgcc acaggccctg accttntanc aacactgccc 360
 atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag 420
 gtgcncctca aanctgtgcc tgetgcagna ngccccacgt ctctggcatg ccccaatgcc 480
 atgngtggn aconttgact tctgggcatg ntgggaattcc ctaccactga ncctgaccat 540
 agngggganc ccattttttt cgaggggggg gcccgggccc caattccncc ntatagnag 600
 ncgtanttac gcgcnnctta ctnggcngt ngtttaacaa cgtcnntgan ctggggaaaa 660
 cccctggngn cnacccaaata taaacngent tgcannacat ccccttttcg 710

<210> 655
 <211> 202
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(202)
 <223> n = A,T,C or G

<400> 655
 ccccttttnc ctttcanccc ccccggttttg gongecgcn acacctactn catccaccca 60
 cantcgacca cccgagcttt tttccgateg cancatcnat gongattttt tctntgcntg 120
 ctgngcctgc acctttgnta ggtcaagcct ggcccatctt cgacaacttc ctcatcacca 180
 acgatgaggc atactctgac ga 202

<210> 656
 <211> 308
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(308)
 <223> n = A,T,C or G

<400> 656
 gctgntgaaa gaccacaccg aaaaactctn ctttccgact tccacatgat gatcngcatg 60
 tgggtggtgag agacttatca tgacgacatc gcttccnacc atcgcanccn ctgcccgaagc 120
 ccattcatgg aggcctgggn anttctgtga ntgaentnga cnctanacnc tnccactgtn 180
 tgctatccag acttgnttng aatatnttat tggcnaaana canttnccgga atgctgtgnt 240
 tgnncattga angatctgat cactatgaga ggggtgaggac nncctgctng ctggcantnt 300
 ntaaccn 308

<210> 657
 <211> 696
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(696)
 <223> n = A,T,C or G

<400> 657
 accntttcca caatnctggn ctccccgcgg tggcggcgc gtcgaccagc aacctcagct 60
 gtgggtcttg ttacagtaat gagttactgt aaggaaagtg tgacatttcg agcaatttga 120
 tttgtttaaa aactagagca gtttcagggt tttccttgta aatctgtctt atgtgtcttc 180
 aatgttcttt cttgaggagt agagaaagga attgttagga atgatgcata aacctatggct 240
 tatttttatct cgctgccacc cataatcaga gcagattctt gggactatga ccctcatgga 300
 gacatgacaa ttgtgtgtgt ggtgggtggg agaaaagagc tgggaatttt tagggtctag 360
 agggccaat caggactatt ttatggagct ctgctcacca actttaagtg agcaccaggg 420
 gtgngaaaagc gaatcttggg ntcaaaaana caatggnaag gggtaagttg gtatnctgaa 480
 ctggccactt cggactctta tttaactggg tattctcant taaggaggcn ngggtggtct 540
 tggcttgtna aggaaagcct gtgcaatgga atgactttta aaccccccat taaaaaaaaa 600
 angntataaa tcttgggtct taanaangaa gcctgggttc tnttanccca ttttnccccc 660
 gggaaggnaa atnttcttag gnaanggaag ggaagg 696

<210> 658
 <211> 698
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(698)
 <223> n = A,T,C or G

<400> 658
 ctggactccc cgcggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc 60
 aaggctgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag 120
 cttgtgttgt ttcattgctca gcgtggaggc ccttcctcca ggtcgctgct ctgtgggggtt 180
 cccatacact caggctccta ggaggagtcc atttagaaag ccagggtttt tctcagagtc 240
 ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc 300
 aagagaaaaa acagggaaaa taagagaggg accttgacac cacacgctct ggaccacaga 360
 gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcagggggtct 420
 gtgatgccac caaagagcag gccgggacag ggtagaggaga gaaaggagag ggaagtgggg 480
 gtttctccta cgcactctta tttgcagagg gaaaggcggg tttgtattgg ggttgtcggg 540
 ctttgcaccc acngcacagt tgtgagacac ccccatcctn agatcaaagc cccacataca 600
 gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttggttg 660
 gnaagttttn aatttncttc cccnaccan cttgcttc 698

<210> 659
 <211> 750
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(750)
 <223> n = A,T,C or G

<400> 659
 ncaantcggg ctccaccgcg gtggcgcccg ctctagacta gtggatcctc ctcatgggcc 60
 tggatatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt 120
 gaggcctaag aatgntattt tcttttagtg atgggtcttg tttgcttctg taaggnaactt 180
 gtgggcactc gtaagcttgg atctctttta tctaatacca gntttgagat tttcttggcc 240
 ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctcttagggg 300
 aagtcttttg gggccccaaag tcaaaaagat gagggattta ccagttctct aaccttggtg 360
 gcccagact ccaaactttg ccttctagtc ccaagaggct atcaaaaagc aaaggccatc 420
 ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc 480
 ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc 540
 acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt 600
 cagcttggcc ccctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt 660
 tttnttgcc cctgactttc nntttttagg gctttccccc angctttgcc ctttgggtta 720
 aagggttat tttccttccc cttttggaag 750

<210> 660
 <211> 849
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(849)
 <223> n = A,T,C or G


```

<400> 660
tcggatccac tagtccagtg tgggtggaatt cgcggcccg gtcgacgggc agtagtggtta      60
tgcntntcta aatgttataa ttatttcaga attactctgc cagaaagtta tgatcataca      120
tagaagagtt tgtagctaac tttgaaagta gtggaagtg gttttcatgt attgtttggg      180
ttaatttaat tttgattata tttgggtttt agttcaggta atttttttgt tgaaaacttc      240
aaatgacaat ttcttcatgg ttactaaaga tcactcatgt ggagtagttt cagatttttt      300
tctgaataca tgtattactt ttagagatgt aaagatgtga aattactaag agagaaaacc      360
atgtgatttg tttagtggat caaaagtcgg tagctccttt gatcctaagt gccactgata      420
gttaaataga tactgaagct atgggcaggc tggattgata agaaaaaagg agacagagaa      480
atgggaaatt gggaaagaac tgtgcaaata ggaaaaggag agagcaacag aacagaatta      540
gtaccacagt gccgaagtgc cacctcaggt acttccatct cccatctcct gaagaattca      600
gtaacagttt gcaaattggc aacacaatca tttagtgatc ctggttgata ttttcaatac      660
tttctgggga tttcttggct ggnttcaaaa gatgatgtcg atagttttat tgcccctgaa      720
ggtattctga agnttancat aatttattgg tcagtaaaat atttgaataa aagngganga      780
aggaaaatct ggcntcttat tttgggatnt cngcnggggg aangaggata taattnacc      840
cggccttgg                                     849

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```

<210> 661
<211> 653
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

```

```

<400> 661
aacttaagct tggtagccgag ctccggtccc tagtccagtg tgggtggaatt cgcggcccg      60
tcgacctcca ttogtttctt gtcccttttt ttcatTTTTT ctcatgttct attcacttta      120
ggttttctaag ataaatatta taaaataatt tttacttata aattattcac tgataccctg      180
tctttaacat gtgaaatgaa ttcaaaagga atcttaatga gaaataatat actcatgatg      240
tttaatagat ttgatttcga aataataagc cctctgaagt cctaagttaa aaataaagca      300
acttgtttga taatttttca tcaagaatgt atctgagtct ctgagtaatt attagtagga      360
atattccatt atcacaatta cacagtataa gctatttagt ctaactttac caaaaaagg      420
agctacttca acactgtgtg agacttttaa tgggtttgca ttgggtatgc actattagca      480
agataaccta ttttacagca gtgtttntta acctttccca tttatttgaa aggcagctaa      540
gatatagtag ttaatntaan gggctgatgc atttatatta catgtagana atgggagata      600
cnaaagggag nggggggana tnttttgnat tcnnaagctt cnttgncaat taa          653

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```

<210> 662
<211> 646
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

```

```

<400> 662
aaacttaagc ttggtacccg agctcggatc cctagtccag tgtggtggaa ttcgcggccg      60
cgtcgaccca gggacaggca gccagnctg gggtcaccag ggtccctct tgggccctcc      120
aanagcaaca gtactggcaa cagctgggat ttgctgagca cagactctgc agcaggctcg      180

```

```

gttgagctct ctgtgcctgt tccttcatac catcctcagc cccatccatg agatgggtcc 240
agctgttttc agatgagaaa atggcacagg aagctggtaa gtgacagtca gaaatgaatg 300
ctggcagctt antccttgga cccaccgcag tgcaggacct tgctcaacag ggatcaccct 360
tgtccgccac ctgttcatga ggccaccagc ggtttgtgtg gtcatttgtc tcctttcatc 420
tgcttgccct caaccagctg ggtcattagg gctggggaac ccagacccca cacagtccct 480
ctcccagang ccagacacan nctnccgcac agnaaggact tcagtccccg aancaaatgt 540
ncctgggcgt anaaactgna gggnccccaa tccctgggtg ggtactgctt tgcaactggng 600
gaattcaccc ctcattnnna acctttccct nttnncccc ctaaac 646

```

```

<210> 663
<211> 650
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(650)
<223> n = A,T,C or G

```

```

<400> 663
aacttaagct tggtaaccga gctcggatcc ctagtccagt gtggtggaat tcgcggccgc 60
gtcgacgtcg acgcggcgng ccgtttcgac gcagttgata catattatta tatactacat 120
nggttttcta gaattaaaaa attaatgtgt agtgccagcc ctagatgtaa gttacatata 180
tcaactctat ccaattttgt cagccataaa acttaccttt ttcacatact tctaactcta 240
acaatgtgag aaatgtagat cattgcaatt ataccacaa ggcagatggc tacatgcaga 300
atggatagca gaatctagct acttaacgta gccacatggt agacgttttt tcctttgttt 360
ttgcaaaatt gcaatataag ttgcataatc ttagagttaa aagatgtaaa gaacccatag 420
aagccagtga tgaaggacat ttatattttc acctttacaa angaccttaa aattgcctat 480
gtggagcaga aactggagga gggcnaancc atcngtaaaa aaaattttgn tncattttgg 540
atttgggcac cattattacc tcccaggtg cctttttgnt ttaacctttc ttttaaaaaa 600
aataattcnt aatttttggg caaaaaaaaa caagggttttt atttaaattt 650

```

```

<210> 664
<211> 678
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

```

```

<400> 664
taaaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttcgc ccatttctac 120
agaaagctgc aatttcagggt tttcaacctt atagggtgata ttttaagaaaa aaaaaaagca 180
atcgcaaata gccccactgc ttttacaaat cattttttct cttctaggta tagcctgtca 240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
agagatatgc ctgcactaat cttaagtggg gatattatgta tttctcaagc aagtgattaa 360
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
anaattatth taggactctg tggctttctc ttcatagaaa tagaaaaaaa aaattgtata 480
aaaaccacaa aaggctcctga atagcccaaa gcaacactga acaaaangaa caaagcagga 540
agcaacacac taccggaatt caattatact accaagggtg antaaccaaa acagcattct 600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaataaat 660

```

cctatatatta cngccnc

678

<210> 665
 <211> 694
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n = A,T,C or G

<400> 665
 cttttcaaat catttttinct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60
 gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120
 cttaagtggg gatattatgta tttctcaagc aagtgattaa agcaaaaacta ggcacgattg 180
 aaatcaagat ctttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240
 tggctttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300
 agccaaagca acactganca aaaagaacan agcagggaag caacacacta ccngaattca 360
 aattatacta ccagggtgta gtaaccacaaa cagcattcta ttggcataaa atagacacca 420
 agaccaatgg ancagaataa agaacccccac aaataaatcc atatatntac cgccanctga 480
 ttatcaataa cnaacaccaa gaacatatnt taagggaant nctattcaat aantagtgtc 540
 ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agaccctat ccctcaccat 600
 acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660
 atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 666
 <211> 705
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(705)
 <223> n = A,T,C or G

<400> 666
 tttaaaaaatt tagatacact angaaaatta ttttagtatac agaagaatat caggggggtgt 60
 agtactcatc agagctaaat gagagcgctt taaaaatgtt agtttgtctt ccgccatttc 120
 tacagaaagc tgcaatttca ggttttcaac ctaatagggtg atatttaaga aaaaaaaaaa 180
 gcaatcgcaa atagccccac tgcctttaca aatcattttt tctcttctag gtatagcctg 240
 tcaggtggcc taatgtaatt tttgacatct ctaggaattt taatagaacc agaaatgggt 300
 gccagagata tgctgcact aatcttaagt ggggatttat gtatttctca agcaagtgat 360
 taaagcaaaa ctaggcacga ttgaaatcaa gatcttttag gcaagaaagt catgatgat 420
 tttanaatta ttttaggact ctgtggcttt ctcttcatag aaatagaaaa aaaaattgta 480
 taaaaccaca aaaggtcctg aatagcccaa gcaacactga acaaaaagaa caaagcagga 540
 agcaacacac taccagaatt caaattatac taccaagggtg tagtaaccaa aacagcattc 600
 tattgggcnt aaaatagacc naagaccaat ggaacagaat aaagaacca aaataaatcc 660
 atatttttac agccagctna ttatcaataa aaacnccaag aacnt 705

<210> 667
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

<400> 667
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180
 agtgcaggca tatctctggc acccatttct gggtctatta aaattcctag agatgtcaaa 240
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
 gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgctctc 420
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480
 gtgtagtcta aactttttta aaaagacatg taatccgagg agtttgtaac tcaaaacgag 540
 tgcattctagg aggtatcgca agcggtttct ggattaaatt ccagctagc ttgcttgctt 600
 agcaggggag ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660
 tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatggttcag 720
 ttgggggtgg ggatcccttg gtcataaaaa ngtcanaaag anggtacagg cggaacncca 780
 aggtcgctcc tgcatttana ctcggaattt tgggtgcc 817

<210> 668
 <211> 826
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(826)
 <223> n = A,T,C or G

<400> 668
 cgggggggnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
 taccattcga gtccctactc ctgccttgct ctagggaat aaaataacgt aaacacgtaa 120
 gaacaatgag aaagcgtttt ctcccttagg ctgcagattg tcttcttcac cgcccctgct 180
 tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240
 ctcgttttga gttacaaaact ccgcggatta catgtctttt taaaaaagt tagactacac 300
 tagggaaaat tatttttagta tcagaagaat atcagggggt gtagtactca tcagagctna 360
 atgagagcgc tttaaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
 caggttttca ncctaataagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480
 gcttttacia atcattttttc tcttctaggt atagcctgct aggtggccta atgtattttt 540
 gacatctcta ggaattttta tagaccagaa atgggtgcca gagatatgcc tgcactaatc 600
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
 cttctcttct taaaaatngaa aaaaaaattg tttaaaccca naaggtctga ataccaagc 780
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 669
 <211> 547
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(547)

<223> n = A,T,C or G

<400> 669

```
cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgcca ttgctttttt    60
tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg    120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc    180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga    240
catgtaatcc gcgaggttag taactcaaaa cgagtgcac tnggaagtat cgcagccgtt    300
nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct    360
gcagcccngg ggnaaaaaacc ttgcgattgt tcttacgtgt ttacgttatt ttatttccct    420
nnagcaaggc nggganttg ggactcgaaa tggtagagtt gggctgggga tcgcccttgt    480
tacataaaag ncttcagaa gagggacggt tacaggcngg ganctccaaa ggtcagtcct    540
tgccatt                                           547
```

<210> 670

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(232)

<223> n = A,T,C or G

<400> 670

```
cgaactatct agactaccta ggaaaaattat tttagtatca gaagaatata aggggtgtag    60
tactcatcag agctaaatga gagcgcttta aaaatgttag tttgtcttcc gccatttcta    120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaaaaaa aaaaaaaagc    180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg           232
```

<210> 671

<211> 214

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(214)

<223> n = A,T,C or G

<400> 671

```
ctccccttcc ntccctcgct actnncatt ttcnnaaatt tntttcgcnt atgnggaaaa    60
acaccacat tnttcancct gcacagaaca ngngggggtg tgtaaaatga agggcttccn    120
cnccttctct tattnaanaa cactnaaana ggganggggt aaaaccgcg ngatntctac    180
nctatcgcg gcgcttttgg ngttggctag aaga                                           214
```

<210> 672

<211> 328

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 672

```

ngancagcgg ngtttaaacg ggcctctaga ctcgaggaga cncctgttgg atggtggatc      60
acanntcgnt actactatac aggacagagt atcggganct cttggntgtt ggngcctgcc      120
aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac      180
cggtcgaat gnaccatgga tgattcncnc tagttgaaaa aaaactcagg cacatgtatt      240
gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgncngtgtg      300
nncnccgtgc tgnctccaga agaggttc      328

```

<210> 673

<211> 223

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(223)

<223> n = A,T,C or G

<400> 673

```

gggggcaaaag ctggctagcg tttaaactta agcttggtac cgagctcgga tcccnagac      60
attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catctcacc tntcgnncg      120
tcaaaacaac ngctttctgc tgcaatgggt agggctcctn acncacggtc gcnnacggag      180
gccnncttat cctentcggg nnggatccct ngaagcatnt tct      223

```

<210> 674

<211> 256

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(256)

<223> n = A,T,C or G

<400> 674

```

gnggggtcnt ngatgagcgc gcgtaatacn atcactntcn ggcgngntgg gtaccgggcc      60
ccccctnaa gcggcggccc ttttttntt ttttttcn acatgataa ntctttnttc      120
taaacagacc acaccactan agttcctttn cttngtacg gaattgagtt aaagtagagn      180
atacaatgca gggcttcnnc tctatttcac attccaggnt gggttcngnat ggatecgccc      240
tgcctctccg atgggt      256

```

<210> 675

<211> 439

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(439)

<223> n = A,T,C or G

```

<400> 675
nnactagtc agtgtggtgg aattccattg tgttgggctt gtatggggtt ttttgtctag    60
ttntttggga aatgttngtg ttactatntt ttggatatna tataatgatat gtatggccct    120
tctatgggct cctcanacng aactcaacca ttttccacaa aaccnattcc tcctttccct    180
tcatgactga gtggtgttgg tactatccng gaaactggga cattgtcctt cacatctntc    240
ccttanctgc ctngtccnat tgatgtcttt gagctntgan atgtctttgt taactntctc    300
ctnctctgt actgccggca naattaagca ccatntgtca caaaaagtat tgcgttacct    360
tcacgnatct gttingttnc atncttgctg cttctccngn ggaaaatagg ctnttctggc    420
aaccgaacng aanaaatac                                     439

```

<210> 676

<211> 587

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(587)

<223> n = A,T,C or G

```

<400> 676
ngngggcctn attaagcgcg cgtaatacna ctcactntgg ggcggaattg gtaccgggnc    60
cccctcaagt tnatntgcn aacctctctt ttggaataac aaaaggttta acacatatgt    120
cctcataggg acgcgcttcc acacnttcc gaacngcttca tanacntcat tntattttct    180
cctcagnaca agttnaggen gaaggtgagg canacnttat aatttccatt tcacaaatnc    240
ggaaagtgag gctcaaaggg nttaaaaaat aacctgatac aantcataga gccggtntct    300
ggaanaagca ggagcaaagt ccaggcatcc tgatccaagc tnggtccact gccttccact    360
ctggagaggc ttcactctcg acaaagggaag ggacntgagt ggctgganaa tctcatggga    420
taaagacctc agnatctcat gctcctggaa atcccatggg ttgaacaaca ggtntttggc    480
ccgtggttct ntccctttgn ccactcttta accttggggg aaatgatggc ntctntnagc    540
nttttttttn aaagagatng aaattgaatg attattngct cattggg                    587

```

<210> 677

<211> 444

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(444)

<223> n = A,T,C or G

```

<400> 677
gtggggcatn attaagcgcg cgtaatacga ctcactatag gggcggaantg ggtaccgggc    60
cccctcgaa gcggccggcc tttttttttt tttttactgt ccaaactntc tatngatnta    120
gttgaactgt ncaacgattt catgaaattc tatacacana gccttcaggt ccagagagta    180
aaacaaattt aaatttnttc accanattgn agcagncana agcatccnat natatccgac    240
tacaatgaat natatgctna nggtanctna tttaccact ntggggtctt tanggtctgt    300
cacaaactat tttcgtaaac atcnntttta anttnggtga atggacctaa tnccagataa    360
ntctatttna tntaccctag catnctgtg gctnactttn cgggctgtgt tggcntactt    420
ttaggagaaa attggtataa atnn                                     444

```

<210> 678

<211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 678
 actagtccag tgtggtggaa ttccattgtg ttgggagcag tttaaaaaaa aaaaagacna 60
 aatatacnac tcttgatnaa acataaaggt acagtggctt atgaggaana gaaaagggtac 120
 ctnaggatgc aaaantacct accacatggg aaccgttngt ccacactcat tccnnanaaa 180
 accgagtcct ctcanttnca cacgtgtacg tttcagttgg gaagtgcctg ccattactcc 240
 naagcctaga accttcacgt cctgaagggt ctggaagggt tttcagattg ctttaaganac 300
 gcngcccttc catattentc tccactaccc nggggaacgg aacaaatgga gctgcgacng 360
 ggaagcgtcc cttccentcc gaacgctttc tttcaaacct gcctgccttc cnggcgaatg 420
 gaccggaagg tttncnngct tcctttcanc ccnaattact tcctgngttg aaaattggcc 480
 tggttggttg caaatgcngg aatttggtta ctttctcat gtcctgtgtt gnnncnaaccg 540
 gctcncctgt tgccctccct tngaaagggt ttcacagggc cccgcccttt ctctntaan 600
 ngtcctaate cggncnggac cactcgggga aaattttttc ttttcgaaaa gccgccccnt 660
 ccgtccggtc 670

<210> 679
 <211> 449
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(449)
 <223> n = A,T,C or G

<400> 679
 actagtccag tgtggtggaa ttccattgtg ttgggagtag gtctactaca ncctacttcc 60
 cctatcatan aaganccttan caacnttcat gatccccccc tcntanncct tttcctcanc 120
 tgcntcctag tcctgtttgt cctnttccca acantcntaa ganagatnac taatnctact 180
 atctctnacc tccggaanct acaanacgtc tggaactatt cngaccccat gcancncat 240
 nctccatcgt cctcccagcc cctncccttc ctttacntta ctnaacgaag gtcgacgac 300
 cctcccntac ctcccnnncc attgggnccc aanggnactg gacctcacga ntacaccnac 360
 tacggggnga ctaagnctgn aactccttac atatntcccc gttacccccc gaacncagcg 420
 aacngcnaca ccttggacnt caagaanta 449

<210> 680
 <211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 680


```

tttcngtgtg gtggaattcg cggccgcgtc gacgagaaga nggaggagga naaggagaag      60
gagaagaagg agaanaagga ggagaaggag aagaaggaga agaaatcatc atcatcatca      120
tccactgtct ngcaactatt taagtttgcn antcccttga aaacaggtac ttttgtttca      180
atgtttggga ccactnctga cnatgannag aanaccaata aatgcttgat naatgaaaaa      240
nccacttttt acctgttaga accctgaggc taagagaant gatgtgactc gacttagtta      300
ccacaaacta tgatcctagc atnaattggg gcatctcaac acctcaactc cctgtgcaag      360
aacagatttt caatgtctac tgatgatttt aaatggatta ntccctctct ttacttctta      420
agggcatgaa gntttatgaa acaaaactat ncagttccag acgcttaacc cacatagtgt      480
taatagtcac cttcaacaca cnactaaacc cccaaaaaan gntttttacg gngtttcgac      540
agttttcttt tctttttgac ttgnttaaca cccnngacaa ctttgnctn tttccttgaa      600
tcacancctt cnaanancca atggtnccgg tttttctcnt tcngggccct tcccttnttn      660
aaaaccanat

```

```

<210> 681
<211> 494
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 681
tcatggtgtc cacagtctga tgtgagcgca ttaaatttaa ggatctccgc ctttctcctt      60
aaaactcagg acttggaat gancctagga agcgccccct cctccccan ccanatccaa      120
gcccgggacc gctgcgctc cagctgcgcc tagtgaaacc gccgaattcg aattcacact      180
cgnggggccc gcgaagggtg gcgcgccccg gggagcgccg gggcnagccc gagggactgc      240
aagccaanaa nggaggcatg ggtggcgggg ggcgcgctct gatccaggaa ggagcggagg      300
cgccgatcac aactctttna gacgccttgc ccgcgccttg ccagcgcgca gntcgcagga      360
cgcgcgagc aggaactcgc tggagtttgc caagccccan gntctctgaa agtntgtagc      420
tccctttcgg ancgctctt ctggcccttt gggacgggtg tgtcattggg cgggggtctg      480
tataaggggg ggac

```

```

<210> 682
<211> 263
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

```

```

<400> 682
tgatcattca agcgnctgnc gnataacgat tgctnagecc aacctttcat agggtcgttc      60
ctttgggaat nggatgtcta ttgaatggca gggatagggg cactcggcac tcgcctctgg      120
tacagttttg catatatatc ctcatcgoga gcgagcgtag gggancgtta agtttgggga      180
aatgcncceg catgnccctn ccggagctta aacccccaac aatnccatt ttnaaaaaag      240
ntttnttant taaaaaaaaa aac

```

```

<210> 683
<211> 255
<212> DNA

```

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(255)

<223> n = A,T,C or G

<400> 683

cttgcccggc	atgcacagac	ntntttacgg	acacnctact	ccaagngagc	ctgnanctgt	60
ctacgggtcaa	nctctaaggt	tngncantgc	cacanatggc	atagtcccgga	gggcgggtnan	120
tctggantgc	tctctgcact	tgaacntaaa	gcgcntttca	aganaggnc	aatngcctgc	180
ctcttgacaa	cnaacaancc	cacaccnacc	tangaccctn	tangcaagga	ctggattctg	240
naaatgcaat	acaca					255

<210> 684

<211> 922

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(922)

<223> n = A,T,C or G

<400> 684

acccttcatt	tcatgtgctt	ctattttctt	acatctttta	catgactaag	ggattaatga	60
aatcacctct	tcataatcat	gaccataatt	tcatccaaca	agtactcaag	tttgggtgta	120
gcactttatt	aatgcttacg	aattctctct	ctctccctct	ttctcttttc	cttagtcctt	180
gcacaataag	gattttttgaa	tgtataatat	catcttaggt	aagctttcat	atgggttttg	240
catatgaagc	ttatgactgt	cataagccat	accaagcctg	tggagtatgg	catgattttc	300
attacataat	ccaatgaaaa	tagacttatt	ttaaatccct	aactttgtag	ttttaatttg	360
tatttcacta	tcttgaaatt	aacagctagt	acttatccat	cacagcagtc	tcctactgac	420
atgaagcaag	ttgttgaaatg	cagtaganca	tgaatgaaag	cattttaatgt	tanacaaaaa	480
tgggtgatac	ccaagcattc	tgaattat	gcacaaagga	atgggacatg	tacatttagtg	540
gcacattttc	taccaatatg	tgacttgaat	tggtttttta	aaaaaaggan	aatgantttc	600
tcaatttgct	ttaaaaaatt	ttnaaaaagt	tcaatggcat	gctgctttgt	ctggacttaa	660
tttattaaca	attnttaanc	cttccttaag	gacanaattt	tggtgttcag	gatcnccttg	720
aagggtctta	tttttnatan	nattccaaac	ccaaaagggtg	gtttaaaatg	ggnggggtcc	780
ccccncnaaa	atttggaaccg	gcttttttat	atttaaaaaa	nttncntttt	gngtttgaaa	840
nctnaatacc	aattaagggg	gaattttacc	tnccagtggg	aaaaaaaaac	nctngccntt	900
naaaaaattc	ccnggagnca	at				922

<210> 685

<211> 531

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(531)

<223> n = A,T,C or G

<400> 685

tgaggctctg	taaaactgtt	cctctgctag	gcatacttca	tattctctat	attaaactca	60
------------	------------	------------	------------	------------	------------	----

```

tctttaattg gcatggaaga ttcattgttc caaatctcag atgaagatcc tatattggat 120
gcaattaagc ctggcagcgc cctcaaaaga cagtcttgct actgctagcc acagccagga 180
cacagtaaca gttccttcta gtgacccnag accataanaa atananatct aaagaattct 240
gactccaaag gcattagccc attcctggta ttgccaatta tgatagaaaa aattgccaag 300
ctoctgggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360
agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420
attacacatg tttactacaa gagatgttna taagtaaaga aggctgata tacaatctaa 480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

```

<210> 686

<211> 336

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(336)

<223> n = A,T,C or G

<400> 686

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ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60
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agctctnatc ttgccaaana actccactta acttcaaaac acaccctcca cacacatcat 180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
anagaagcag ttctcaaant gcagctnaaa aagaaaactga aaaccaatt catgcaanac 300
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<210> 687

<211> 271

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(271)

<223> n = A,T,C or G

<400> 687

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aatctgcact ggaaaatgct ctaaaaataag ccctaggtct tgcatgaatt gggttttcag 60
tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc 120
atntagatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180
tgaagttnag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc 240
tctctgagaa gaggacatag cttgtagtgt t 271

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<210> 688

<211> 740

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

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<400> 688
tgatgaagcg cgcgtnttac nactcactat nggggcgaan tatgggtacc gggnccccct    60
cgaagcggcc gccctttttt tntttttttg tgagagttaa aataaaatat ttgagtttaa    120
tttaaagttt gagtttaatt aaaatatatg gcatatccca agttgggctt tgcanaaaga    180
acacttctca ggaactgtta gttgggtgtac caggaactca gaagggtcct gttattaaat    240
atatttgga aatgcatgga ttctctgaan atcncctctgc atgtgagcaa cacttacatc    300
ncaaaccaaa attggcattg catacatnaa ccaatatttc ccaaacattt ctggttatgg    360
cccaccccct ttgtgtanta cttattgctg ttttttgga ccttggggaa attacttaaa    420
atattcagct ggaaattaca ggcgttactt ttaaggganc aagaattaca gtgactcca    480
aaattgcaag tgttgattac tatttaagaa cccaagaatt tgaaagaaat ttgaaaagt    540
gaaaacngga aatnttaaat gacttctcaa attttgaaaa ctcnngnaaa catctccact    600
ttggtncctt tcctttaaaa attggctaaa aattntttnt tatncccacc ccattggaan    660
tncccccccc ctggaacaat tggattcccc tatttcctaa aaaacggccn cccccccg    720
ggngaacncc naenttttgn                                     740

```

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<210> 689
<211> 635
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(635)
<223> n = A,T,C or G

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<400> 689
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aaagaagtgt acaaagttga gatgtttcct gagctctcat atatctgana atgtcatttt    120
acatctccgt cttcacctct caaaacttct ttcaattctt tggctcttaa tagtaatcaa    180
cacttgcact ctggagtcac tgtaattctt gctcctttac agctacnctt gttatttcca    240
gctgaatatt tttagttatt tcccagggtt ccaaaaaaca gcaataagta ctacacaaag    300
ggggtgggcc ataaccagaa atgtttggga aatactggct catgtatgca atgccaaatc    360
tggtttgca ttgtantgtt gctcacatgc agagtgaatc ttcaaanaat ccattgcattt    420
tccaaatata tttaataaca gggaaacctt tganttcctg gntacaccaa ctaacagttc    480
ctgaaaaatg ttctttctgc aaaacccaac ttggggatat gccatatatt ttaattaaac    540
tcaaaactta aattaaactn caattatttt attttaaact cctcaaaaaa aaaaaaaaaa    600
agggggggcc cttccaangg ggggnccggt tcccc                                     635

```

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<210> 690
<211> 3923
<212> DNA
<213> Homo sapien

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<400> 690
acagaagaaa tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agatttgtgt    60
ggctgcagcc gagggagacc aggaagatct gcatgggtggg aaggacctga tgatacagag    120
gaattacaac acataactt agtgtttcaa tgaacaccaa gataaataag tgaagagcta    180
gtccgctgtg agtctcctca gtgacacagg gctggatcac catcgacggc actttctgag    240
tactcagtgc agcaaagaaa gactacagac atctcaatgg caggggtgag aaataagaaa    300
ggctgctgac ttaccatct gagggcacac atctgctgaa atggagataa ttaacatcac    360
tagaaacagc aagatgacaa tataatgtct aagtagtgac atgtttttgc acatttccag    420
cccctttaaa tatccacaca cacaggaagc acaaaaggaa gcacagagat ccctgggaga    480
aatgcccggc cgccatcttg ggtcatgat gagectcgcc ctgtgcctgg tcccgcttgt    540
gaggaagga cattagaaaa tgaattgatg tgttccttaa aggatgggca ggaaaacaga    600

```

t c t c t g t t g t g	g a t a t t t t a t t	t g a a c g g g a t	t a c a g a t t t g	a a a t g a a g t c	a c a a a g t g a g	660
c a t t a c c a a t	g a g a g g a a a a	c a g a c g a g a a	a a t c t t g a t g	g c t t c a c a a g	a c a t g c a a c a	720
a a c a a a a t g g	a a t a c t g t g a	t g a c a t g a g g	c a g c c a a g c t	g g g g a g g a g a	t a a c c a c g g g	780
g c a g a g g g t c	a g g a t t c t g g	c c c t g c t g c c	t a a a c t g t g c	g t t c a t a a c c	a a a t c a t t t c	840
a t a t t t c t a a	c c c t c a a a a c	a a a g c t g t t g	t a a t a t c t g a	t c t c t a c g g t	t c c t t c t g g g	900
c c c a a c a t t c	t c c a t a t a t c	c a g c c a c a c t	c a t t t t t a a t	a t t t a g t t c c	c a g a t c t g t a	960
c t g t g a c c t t	t c t a c a c t g t	a g a a t a a c a t	t a c t c a t t t t	g t t c a a a g a c	c c t t c g t g t t	1020
g c t g c c t a a t	a t g t a g c t g a	c t g t t t t t c c	t a a g g a g t g t	t c t g g c c c a g	g g g a t c t g t g	1080
a a c a g g c t g g	g a a g c a t c t c	a a g a t c t t t c	c a g g g t t a t a	c t t a c t a g c a	c a c a g c a t g a	1140
t c a t t a c g g a	g t g a a t t a t c	t a a t c a a c a t	c a t c c t c a g t	g t c t t t g c c c	a t a c t g a a a t	1200
t c a t t t c c c a	c t t t t g t g c c	c a t t c t c a a g	a c c t c a a a a t	g t c a t t c c a t	t a a t a t c a c a	1260
g g a t t a a c t t	t t t t t t t t a a	c c t g g a a g a a	t t c a a t g t t a	c a t g c a g c t a	t g g g a a t t t a	1320
a t t a c a t a t t	t t g t t t t c c a	g t g c a a a g a t	g a c t a a g t c c	t t t a t c c c t c	c c c t t t g t t t	1380
g a t t t t t t t t	c c a g t a t a a a	g t t a a a a t g c	t t a g c c t t g t	a c t g a g g c t g	t a t a c a g c a c	1440
a g c c t c t c c c	c a t c c c t c c a	g c c t t a t c t g	t c a t c a c c a t	c a a c c c c t c c	c a t a c c a c c t	1500
a a a c a a a a t c	t a a c t t g t a a	t t c c t t g a a c	a t g t c a g g a c	a t a c a t t a t t	c c t t c t g c c t	1560
g a g a a g c t c t	t c c t t g t c t c	t t a a a t c t a g	a a t g a t g t a a	a g t t t t g a a t	a a g t t g a c t a	1620
t c t t a c t t c a	t g c a a a g a a g	g g a c a c a t a t	g a g a t t c a t c	a t c a c a t g a g	a c a g c a a a t a	1680
c t a a a a g t g t	a a t t t g a t t a	t a a g a g t t t a	g a t a a a t a t a	t g a a a t g c a a	g a g c c a c a g a	1740
g g g a a t g t t t	a t g g g g c a c g	t t t g t a a g c c	t g g g a t g t g a	a g c a a a g g c a	g g g a a c c t c a	1800
t a g t a t c t t a	t a t a a t a t a c	t t c a t t t c t c	t a t c t c t a t c	a c a a t a t c c a	a c a a g c t t t t	1860
c a c a g a a t t c	a t g c a g t g c a	a a t c c c c a a a	g g t a a c c t t t	a t c c a t t t c a	t g g t g a g t g c	1920
g c t t t t a g a a t	t t t g g c a a a t	c a t a c t g g t c	a c t t a t c t c a	a c t t t g a g a t	g t g t t t g t c c	1980
t t g t a g t t a a	t t g a a a g a a a	t a g g g c a c t c	t t g t g a g c c a	c t t t a g g g t t	c a c t c c t g g c	2040
a a t a a a g a a t	t t a c a a a g a g	c t a c t c a g g a	c c a g t t g t t a	a g a g c t c t g t	g t g t g t g t g t	2100
g t g t g t g t g t	g a g t g t a c a t	g c c a a a g t g t	g c c t c t c t c t	c t t g a c c c a t	t a t t t c a g a c	2160
t t a a a a c a a g	c a t g t t t t c a	a a t g g c a c t a	t g a g c t g c c a	a t g a t g t a t c	a c c a c c a t a t	2220
c t c a t t a t t c	t c c a g t a a a t	g t g a t a a t a a	t g t c a t c t g t	t a a c a t a a a a	a a a g t t t g a c	2280
t t c a c a a a a g	c a g c t g g a a a	t g g a c a a c c a	c a a t a t g c a t	a a a t c t a a c t	c c t a c c a t c a	2340
g c t a c a c a c t	g c t t g a c a t a	t a t t g t t a g a	a g c a c c t c g c	a t t t g t g g g t	t c t c t t a a g c	2400
a a a a t a c t t g	c a t t a g g t c t	c a g c t g g g g c	t g t g c a t c a g	g c g g t t t g a g	a a a t a t t c a a	2460
t t c t c a g c a g	a a g c c a g a a t	t t g a a t t c c c	t c a t c t t t t a	g g a a t c a t t t	a c c a g g t t t g	2520
g a g a g g a t t c	a g a c a g c t c a	g g t g c t t t c a	c t a a t g t c t c	t g a a c t t c t g	t c c c t c t t t g	2580
t g t t c a t g g a	t a g t c c a a t a	a a t a a t g t t a	t c t t t g a a c t	g a t g c t c a t a	g g a g a g a a t a	2640
t a a g a a c t c t	g a g t g a t a t c	a a c a t t a g g g	a t t c a a a g a a	a t a t t a g a t t	t a a g c t c a c a	2700
c t g g t c a a a a	g g a a c c a a g a	t a c a a a g a a c	t c t g a g c t g t	c a t c g t c c c c	a t c t c t g t g a	2760
g c c a c a a c c a	a c a g c a g g a c	c c a a c g c a t g	t c t g a g a t c c	t t a a a t c a a g	g a a a c c a g t g	2820
t c a t g a g t t g	a a t t c t c c t a	t t a t g g a t g c	t a g c t t c t g g	c c a t c t c t g g	c t c t c c t c t t	2880
g a c a c a t a t t	a g c t t c t a g c	c t t t g c t t c c	a c g a c t t t t a	t c t t t t c t c c	a a c a c a t c g c	2940
t t a c c a a t c c	t c t c t c t g c t	c t g t t g c t t t	g g a c t t c c c c	a c a a g a a t t t	c a a c g a c t c t	3000
c a a g t c t t t t	c t t c c a t c c c	c a c c a c t a a c	c t g a a t g c c t	a g a c c c t t a t	t t t t a t t a a t	3060
t t c c a a t a g a	t g c t g c c t a t	g g g c t a t a t t	g c t t t a g a t g	a a c a t t a g a t	a t t t a a a g c t	3120
c a a g a g g t t c	a a a a t c c a a c	t c a t t a t c t t	c c t t t t c t t t	c a c c t c c c t g	c t c c t c t c c c	3180
t a t a t t a c t g	a t t g c a c t g a	a c a g c a t g g t	c c c c a a t g t a	g c c a t g c a a a	t g a g a a a c c c	3240
a g t g g c t c c t	t g t g g t a c a t	g c a t g c a a g a	c t g c t g a a g c	c a g a a g g a t g	a c t g a t t a c g	3300
c c t c a t g g g t	g g a g g g g a c c	a c t c c t g g g c	c t t c g t g a t t	g t c a g g a g c a	a g a c c t g a g a	3360
t g c t c c c t g c	c t t c a g t g t c	c t c t g c a t c t	c c c c t t t c t a	a t g a a g a t c c	a t a g a a t t t g	3420
c t a c a t t t g a	g a a t t c c a a t	t a g g a a c t c a	c a t g t t t t a t	c t g c c c t a t c	a a t t t t t t a a	3480
a c t t g c t g a a	a a t t a a g t t t	t t t c a a a a t c	t g t c c t t g t a	a a t t a c t t t t	t c t t a c a g t g	3540
t c t t g g c a t a	c t a t a t c a a c	t t t g a t t c t t	t g t t a c a a c t	t t t c t t a c t c	t t t t a t c a c c	3600
a a a g t g g c t t	t t a t t c t c t t	t a t t a t t a t t	a t t t t c t t t t	a c t a c t a t a t	t a c g t t g t t a	3660
t t a t t t t g t t	c t c t a t a g t a	t c a a t t t a t t	t g a t t t a g t t	t c a a t t t a t t	t t t a t t g c t g	3720
a c t t t t a a a a	t a a g t g a t t c	g g g g g t g g g	a g a a c a g g g g	a g g g a g a g c a	t t a g g a c a a a	3780
t a c c t a a t g c	a t g t g g g a c t	t a a a a c c t a g	a t g a t g g g t t	g a t a g g t g c a	g c a a a c c a c t	3840

```

atggcacacg tatacctgtg taacaaacct acacattctg cacatgtatc ccagaacgta 3900
aagtaaaatt taataaaaaag tga 3923

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<210> 691
<211> 882
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(882)
<223> n = A,T,C or G

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<400> 691
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aaaataaaaac tagtataagg atagaagccc agggttgatt taagtctgcg gaaatcataa 180
accataggctc agacttctca ttgatgaggt acttggtgggt tagaatacaa ttaggtatat 240
ttggtctaga aaccaggatg gaattagaga ataaaagact gagcaatagc atgttatagt 300
attagaaata ctatagaaat aggaaaagcc ctgattatga ctttggagtt ctgatccaac 360
atctgggatt atttagatat tttaaaggaa aacgatgact tttagctctc aggatgttag 420
tttcctcaac cataaaatga agagcctcga aaagatttcg tttaccagat tatttctgaa 480
gtcaattcca gttctaaaaat tccatcactg ngcactaagg caaattgaat tgaataaagt 540
attgggnatg cataaaatac tctattttta aaaangaata gtaattatcc attggnaaca 600
gacgcantca tccagncatc tectaccctg ncccatgncn tatgtagana tgtanctcta 660
atcccttaac aaaccgattt tgcaaaggag cttanccttg gggtaacttg tcanggcaac 720
tggtctactt tnaagactca tcttcactta ctgggcacca aatncctacc attgcatcaa 780
actggggitc ccatncaagg caaaccctgn gaaatcttta atcccgaat tggcgcccaa 840
tttgnngggg ttccnaaaaa gaatentccc ccccgagggg cc 882

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<210> 692
<211> 235
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(235)
<223> n = A,T,C or G

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<400> 692
ccgcactngt aangnccgcc agngngctgn aantccgctn agcncggatc cactagtcca 60
ttgatggtaa aagggtagct tactggnatg tccgntctgt ccanganata atacncagga 120
cttctcanag cacttaatat gttaatatata aactncgnga aaaaagatnt tcnatgaanc 180
nttcctctta ggaggtcagg ngagaatagt gttaatgnca ttaagganag aacga 235

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<210> 693
<211> 383
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(383)

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<223> n = A,T,C or G

<400> 693

nttatgtaag	aaatgtcata	tatcttttat	tttcttttaa	tcaaaataaa	tatgactttg	60
agcatcccat	cccatgcccc	atcctatcag	aatggtagga	acatcaacac	aaataattag	120
taatgcaccg	catctacatt	cccatgctct	ctttacttct	tcagcattgc	ctaaaggcat	180
aatacacctt	taattaatta	attcagcctc	ctaatgcaca	ttaacaaagc	ccctgctaga	240
ctctgtccat	aatggnaaac	ctgnatgata	cttgatatta	acantttaag	gaatgctcat	300
ggattggtn	cagacttaaa	aaattgaggg	ggctgaanaa	aatctaangg	anaaatcatg	360
gaagcatttg	cacatattac	ata				383

<210> 694

<211> 204

<212> DNA

<213> Homo sapien

<400> 694

tctcttggt	ggtcagcctg	aaggggtgta	atgactcacc	aacgctacta	atccttcttc	60
actgtccctt	atttttttcc	ctcccaggct	cataactcga	ggttaaactc	tcttttatac	120
aagaaccctg	tctgatgaag	catcatttca	gaattttaag	tcaacttaca	aatgtggtat	180
tattcacatc	tgagtacaaa	tta				204

<210> 695

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 695

gcaccagccc	aggtgctggt	tcttcacttg	agctccatga	ccctccctgt	gtggtggggt	60
gaacggtgac	ctccaaaaga	tatgtccacc	tggaacctca	gaataagatc	ttatttgga	120
tagtctttgt	agatgtcagt	aaggtaaaga	tttgagatg	agaccctcct	ggattagggt	180
aggccctagg	tccactggca	ggtgtgcttc	tcagggtctg	aaaggggaag	acagggccac	240
ccagaggagg	agacggaggc	agagacaggg	ccaccagag	gaggagacgg	aggcagagac	300
agggccaccc	agaggaggag	acggaggcag	agacaggggc	caccanagg	aggagacgga	360
ggcagagaca	gggccaccca	gaggaggaga	cggaggcaga	gacagggcca	cccaaaggag	420
gagacggagg	cagaanacag	gcccccccaa	agaaganacc	ggaggcanaa	aacagggcca	480
ccanaggag	gagacggagg	canaaacagg	gccaccccaa	aggaggagac	ggaggcaaaa	540
cagggccacc	caaaaggagg	aagccggaag	gaaaaaacag	ggcccccca	aaggagggaag	600
ncggagggn	aaaaanaggg	cccccccaa	agngagaaaa	cnnggnaggc	nanaaaaccn	660
ggggcccnnc						670

<210> 696

<211> 317

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(317)

<223> n = A,T,C or G

<400> 696

tgacccggttn	tttctgcaaa	ggagagtggg	gaaggagggg	tggaagaca	aaagttacat	60
gttagcaggg	aagagaacag	aattttatcc	acccttatct	ctttagtgag	tgaacaaaca	120
gccactgtc	atcgtggata	catttcactt	ttttcacatg	actaaggagc	tctccggagt	180
gaagagttag	taaatatggt	tattacgcat	tcatttgcta	agaatcatca	agaacccaaa	240
gttagagacg	tttcgtgggt	gaactttctc	cctactgtct	agtagaatta	tatggggatt	300
ctggatctgc	tggtgcc					317

<210> 697

<211> 246

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(246)

<223> n = A,T,C or G

<400> 697

ctncagctct	aatcgactnc	tatnaggnat	gatggcncgt	gcngcgcgta	cgtantgctt	60
ggatcctcnn	anagcggacg	cctactacta	ctaaattcgc	ggncgcgttg	actttttttg	120
tttttttct	tnacagagnt	ntttttgtgc	ccttggttct	tatgctcana	ctcngcaaaa	180
aanatcaaaa	gntacnnatg	aaaaacntat	nccatctnca	naaaggaggt	gnagntatta	240
ctttct						246

<210> 698

<211> 3674

<212> DNA

<213> Homo sapien

<400> 698

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<213> Homo sapien

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<223> n = A,T,C or G

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<211> 2841

<212> DNA

<213> Homo sapien

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<221> misc_feature

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<223> n = A,T,C or G

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<210> 701

<211> 3228

<212> DNA

<213> Homo sapien

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<221> misc_feature

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<223> n = A,T,C or G

<400> 701

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<210> 706
<211> 123
<212> PRT
<213> Homo sapiens

<400> 706
Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu Val Phe
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Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val
      20                                25                        30

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
      35                                40                        45

Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
      50                                55                        60

Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
      65                                70                        75                        80

Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
      85                                90                        95

Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
      100                               105                       110

Val Ser Gly Lys Gln Leu Trp Arg Met Leu Leu
      115                               120

```

<210> 707
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 707

```

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
      5                      10                      15

Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu
      20                      25                      30

Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
      35                      40                      45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro
      50                      55                      60

Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr
      65                      70                      75                      80

Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly
      85                      90                      95

Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg
      100                     105                     110

Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly
      115                     120                     125

Pro Ala Gln Ser Leu Ala His Arg Arg His Trp Arg Asn Ala Pro Asn
      130                     135                     140

Leu Trp Leu Ala Leu Leu
145                      150

```

<210> 708
 <211> 371
 <212> PRT
 <213> Homo sapiens

<400> 708

```

Met Leu Phe Pro Ser Phe Ser Arg Ser Leu Val Pro Leu Pro Leu Ala
      5                      10                      15

Leu Tyr Leu Ser Gln Pro Leu Thr His Thr Thr Ser Leu Leu Ala Gly
      20                      25                      30

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
      35                      40                      45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp

```

50		55		60
Ala 65	Leu Ser Leu Gly 70	Ile Leu Leu Ser Leu Phe 75	Leu Ile Pro Arg Ala 80	
Gly 85	Trp Leu Ala Gly 85	Leu Leu Cys Pro Asp 90	Pro Arg Pro Leu Glu 95	Leu
Ala 100	Leu Leu Ile Leu Gly 100	Val Gly Leu Leu Asp 105	Phe Cys Gly Gln Val 110	
Cys 115	Phe Thr Pro Leu Glu Ala 115	Leu Leu Ser Asp Leu Phe 120	Arg Asp Pro 125	
Asp 130	His Cys Arg Gln Ala Tyr 130	Ser Val Tyr Ala Phe Met 135	Ile Ser Leu 140	
Gly 145	Gly Cys Leu Gly Tyr 145	Leu Leu Pro Ala Ile Asp 150	Trp Asp Thr Ser 155	
Ala 165	Leu Ala Pro Tyr Leu Gly 165	Thr Gln Glu Glu Cys Leu Phe 170	Gly Leu 175	
Leu 180	Thr Leu Ile Phe Leu Thr 180	Cys Val Ala Ala Thr Leu Leu 185	Val Ala 190	
Glu 195	Glu Ala Ala Leu Gly Pro 195	Thr Glu Pro Ala Glu Gly 200	Leu Ser Ala 205	
Pro 210	Ser Leu Ser Pro His Cys 210	Cys Pro Cys Arg Ala Arg 215	Leu Ala Phe 220	
Arg 225	Asn Leu Gly Ala Leu Leu 225	Pro Arg Leu His Gln Leu Cys 230	Cys Arg 235	
Met 245	Pro Arg Thr Leu Arg Arg 245	Leu Phe Val Ala Glu Leu Cys 250	Ser Trp 255	
Met 260	Ala Leu Met Thr Phe Thr 260	Leu Phe Tyr Thr Asp Phe 265	Val Gly Glu 270	
Gly 275	Leu Tyr Gln Gly Val Pro 275	Arg Ala Glu Pro Gly Thr 280	Glu Ala Arg 285	
Arg 290	His Tyr Asp Glu Gly Lys 290	Ala Leu Ala Ala Ser Arg Gly 295	Trp Cys 300	
Gly 305	Ser Arg Pro Pro Glu Thr 305	Thr Leu Gly Ala Val Ser Gly 310	Leu Val 315	
Pro 325	Leu His Pro Gly Pro Asp 325	Phe Ser Val Arg Lys Val Gly 330	Met Asp 335	
Pro 340	Ile Cys Ile His Gly Phe 340	Ser Trp Val Trp Asn Ile Ser 345	Ala Cys 350	

340

345

350

Gly Phe Arg Lys Ala Ser Gly Cys Ser Arg Ser Leu Ile Arg Val Val
 355 360 365

Ala Pro Val
 370

<210> 709
 <211> 141
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(141)
 <223> n=A,T,C or G

<400> 709
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 tccacanata aantgactca ttcctctcct cgcatanccc actntcccct ngcgataccg 120
 taacnaancc cttccccctt t 141

<210> 710
 <211> 196
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(196)
 <223> n=A,T,C or G

<400> 710
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 gtcncatcc acccgtaact ctccccntaa ncnataaccc cttttngcga atagacccca 120
 ccttancaat nggttttttcn ttttttgtcc ctnggnccgn gcgattcaan aaattgaagg 180
 cccanaaaaa ccccct 196

<210> 711
 <211> 177
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(177)
 <223> n=A,T,C or G

<400> 711
 ntacntcnct ccnaatgaaa ttcgaaanctc ggttaccogg gggnattccg attaggngcg 60
 tantctogga tgtgcagtca caagtctttt gctaattctt ataattntcn ctaccctttc 120
 ttcnacaata ctgctatcct antttttctn tcnctctct cccannttac taaccac 177

<210> 712
 <211> 185
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(185)
 <223> n=A,T,C or G

<400> 712
 aaacgnacca nngccaacga tangtggttg ngttggttgc ggttgttcct cttatntgca 60
 ctggttggtcc gtgtcgcacg ganggccacg tccctctgnc ntgagtanca catagcatcc 120
 acgttttagtc gactntnccg ggcggccgct ctaccntnt atngattctt attaaaantc 180
 ggatc 185

<210> 713
 <211> 172
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(172)
 <223> n=A,T,C or G

<400> 713
 nntggtcgcc tngngcgtnta ctctaaagga tntactatnc atatggantc naanacgact 60
 cactacacgg cncctnccg agccnnggtc agtgcctnct nggagacctt ctctggggca 120
 ggangagcac tnggtatgtt cacgtatcnc ttcntaaana tacnnccctc cg 172

<210> 714
 <211> 112
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(714)
 <223> n=A,T,C or G

<400> 714
 nttgcgtgcc tggacgtnta ctctgcanga tctactactc atngaatc taantacgga 60
 ctactatnc ggcancgag gcgcagcagg gaanggggtca cctcccagtc tc 112

<210> 715
 <211> 326
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(326)

<223> n=A,T,C or G

<400> 715

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tactctanag gatctnecng tcanttgat tctatntcga ctactctag ggctcnagcn 60
gtcngccggg caagttattc ggatcgtcgg gntccgagct tcgcaattaa ntgtgccatc 120
gttctncaac gttcctgact nggaancccc ngcngttcng atccnenggt acctagctcc 180
anntcccccg tntcctttct ggngtntcat naangaggac cncctcgcg cnccttccct 240
taatctgcnc acnctgaacg nccaatggac atngtgcgtt taatntanna ggcccgnttc 300
gngtgcctt cccgtnannt cagctc 326
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<210> 716

<211> 122

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(122)

<223> n=A,T,C or G

<400> 716

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ctcannatag ggctctagcg nggatncnga ttgctntcc ngattcantg acnccgggtan 120
ca 122
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<210> 717

<211> 203

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(203)

<223> n=A,T,C or G

<400> 717

```
cntgcatgcc tgcaggtcga ctctagagga tctactagtc atatggatcg agcggccgcc 60
cgggcagggtg tnaatgataa anatgcatca tactanccta cagaanggag agataatggt 120
ngntggacca ngttggtttt cttgcgtgtg tgtggcagta gtaagttatt agtttttana 180
atcantaccg ccctccgcac cac 203
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<210> 718

<211> 168

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(168)

<223> n=A,T,C or G

<400> 718

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ggcagganga tcncttgagc ccngaggtc gaggtacag tgagccanga gtgcactact 60
gtnnccgect ccgcatncac gngtggtcg atccccgggt accganctng anttactgg 120
```


antttcttttt aancgtnttg antggtacna cctctganc cctggctg 168

<210> 719
 <211> 210
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(210)
 <223> n=A,T,C or G

<400> 719
 cancgctcgc ataacacgta ttttntgatn aagattctna ctgacccatn aantctacnt 60
 ctcaagctct tncanngtcc agtnaangga atgtgtatnn gtngggatnc cacanaaaaa 120
 aganatntcg gncgetteat tantcatect tcttaccan ntctctngat nncagtntg 180
 ancntgaacg cacactacng gatntctcca 210

<210> 720
 <211> 131
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(131)
 <223> n=A,T,C or G

<400> 720
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 cgnanactta ggggetcact gcgagccacc ggccacaggt cgtatagggc aaagcacgng 120
 gaagcacccc t 131

<210> 721
 <211> 121
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(121)
 <223> n=A,T,C or G

<400> 721
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 naggaaaaan ganccaacaa ctaaaaaaaa nncggncgtg ncagcttnga tgactngtcc 120
 a 121

<210> 722
 <211> 246
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(246)
 <223> n=A,T,C or G

<400> 722
 anctggagtc ggcgcgtgca gtcacattgt ggatccanaa aatcggcaca agctctcntg 60
 gnttcntcga tatgaanaac actaatccca tgtngtntgn gtctccgtga ttcattccctc 120
 gcacnggtcc ccntccnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180
 agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cnccgtnaac 240
 atcaag 246

<210> 723
 <211> 160
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(160)
 <223> n=A,T,C or G

<400> 723
 cctccggaaa atccaantag agtaantncn ctctaatecg gggnaattgg nggggttnnat 60
 acgtcctcct cccccagnt aggattnana aaaggntccc cagancaaaa nctccaaagt 120
 gnacnanta gccgtncceg anatincaacg ccctacgtc 160

<210> 724
 <211> 156
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(156)
 <223> n=A,T,C or G

<400> 724
 tnanccnata tacaccaaat tctgattcta aantcccacc caagggaaaa aagttgagaa 60
 gagcctttcc acttttctac taataaaaaa atgcaccagc ccctaccann agtgnggaaa 120
 acctccttag gcccttgntt ggaacaancg aaaatc 156

<210> 725
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(347)
 <223> n=A,T,C or G

<400> 725
 aganggttnt atncatgctg tactcgcgcg cctgcagtcg acactagtgg atccaaagaa 60
 ttcggcacga gagacggtgc gcgatggacc gagggcccca gccgngagg cgccgccgcc 120

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<210> 726
<211> 162
<212> DNA
<213> Homo sapiens
```

```
<400> 726
ttgggtgggt  tgggtggggg  naaatttncc  catttgggtg  ggtttggggg  ggnaaatact  60
tccgccttt  tnggtnccca  aaganacnaa  gggggagtcc  ctnatagag  gnagncgat  120
nntncaac  nacntngact  ttgnccatgg  ggagaaaggt  gg          162
```

```
<220>  
<221> misc_feature  
<222> (1)...(120)  
<223> n=A,T,C or G
```

```
<210> 728
<211> 130
<212> DNA
<213> Homo sapiens
```

```
<400> 728
gaccactgac agcgttnaac ttagcttggg cagagctcgg atccctagtc cgtgtggtgg 60
aattccatgt gtcgagagag gggcaaatac nctccaanac ancnccctca tgctenacac 120
atattgcgat                                     130
```

```
<210> 729
<211> 182
<212> DNA
<213> Homo sapiens
```

<220>
 <221> misc_feature
 <222> (1)...(182)
 <223> n=A,T,C or G

<400> 729
 cngactgctn gcgtttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
 gctggctgct tccagtcgat tanatttgtg aaaaagctga accnngccn gttaaggggg 120
 annatgcaaa anatncatcc nctgccccn taaactgntc tntccnaggg aaaaaangga 180
 ag 182

<210> 730
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n=A,T,C or G

<400> 730
 cactcncact ccggacctag gcncttcacc actgctctct tctcctcct cctcctctc 60
 ctcggggctg ggggaccttc ccagtgacc atctcacttt ggctgaancc cactcggggc 120
 agcctgagtt tggggtcttt ggctttctca cctcctcctg cccctcctt ggcccgacc 180
 aggccaaacc ggggcagccg taccttgagc ttgtgtcgg cctctcctc cccctctgcc 240
 acctggtact cggcatggtt gccccggga tggcgagagc tccacgtcgg gcagtgagaa 300
 gcagaaagta cgctcggccc ctgggggctg ctctcagca cctcgcgcc ccacctagc 360
 tctggccccc agtgtgggca acttcagcct cagcccacc tcgcctgtgg ccgcctcgc 420
 cgctgtgcc tctcggctta gcccacgtc caactcaagc tggggcactg tcacggtggg 480
 catcttaaag acacctcac ccaccagcag ctaccacct gcaacctggg ctccaggcaa 540
 aaaaagggtc acctggggca notgaacct gtacctgctg tgccctctgc tgaangaat 600
 gttatctgaa cctgctgccc tgggggtact gccttcccaa aaccgggtca antccacctg 660
 ttggaaggna aatncccc 678

<210> 731
 <211> 135
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(135)
 <223> n=A,T,C or G

<400> 731
 gagatccgac gtcacccctt tccggcggcc caagacgctg caactcccga ggcngcccaa 60
 atatcttttg aagagcgctc ccagcccaac acaatggaat tccaccacac tggnttagtg 120
 gatccgagct aagcc 135

<210> 732
 <211> 660
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(660)
 <223> n=A,T,C or G

<400> 732
 gcttggtagc gagctnggat ccctagtaac ggcgcgcagt gtgctggaat tcggctttct 60
 tcaatcagnt nacgagctgc atgggtctgt aacattgtca taattgctgg catagattac 120
 tgaaaataaa gaaaaaaaat tgaagctgcc tatcaagttt tgggtattatc aaaaacttcc 180
 tacaagttat tttacttcaa ccattgttatt acaaatattt taatgaatac tttagagact 240
 ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
 ttgataatta cataaattat tatgggtccat tcaacttttc tagtgtttag tttatacacc 360
 aggaagactt tcctatttcta ctaacatttt taaagtatgc taacctatta tttaaacgca 420
 tccactatta ggatttttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaac 480
 tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtagggt 540
 cttctgaata actcagnaaa gctcacttcc attatcttac tttataaaaa aatgctataa 600
 gacagaatgg gccgacgtgg nggctccacc tgtatccacc tttggaggcg agnggcgaat 660

<210> 733
 <211> 836
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(836)
 <223> n=A,T,C or G

<400> 733
 aattaatgac tttttttccg ccctgccaaag ctagtttgtc taaatataat gtaaagaaat 60
 tagctactca ttttctgggc cacgaagggt cctaaaatgg gaagaagtgg agatctgacc 120
 ttgttagttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
 tcctctataa ttgtatacaa aatcgtgagt ttttaaaaac tgggttagag ctattgggtc 240
 ctgagagtct caggcatctt agaccccaa aaagggttaag gactactgac ttaaccaatt 300
 aggtttgagt ggcatgggt ttgaagaaaa gcagaggaaa gatataatctt ataattctgg 360
 gcaacaaaaa agtggatgtg tgccagcatc ttagagtaga atcctcttaa aaggatagca 420
 ctgcatatga actagtaggt ttaaccagt gcataattag gcgaagtagc tcatttttct 480
 gttagaattc ttttttattt gggaatgggc aagcttttac agcttttacc ttgccaatga 540
 atacctggaa tttaaaaaat ctgtttaggc atattgcccc taaagttttt tttccttagat 600
 catatattca gtaaataatgt ttgtagcttt atttcaatcc cccaattcat tgagggttga 660
 aacaatttga atggtttgag tgtagaagct aagttatttc tgtagaggct aagggcattt 720
 ataccaanat atgttagact tgnngntcct gttaccatg ctgtanacaa taggaattac 780
 tgtatatcca cattttaatt ttaacatctt ctgctttgnt gntggtttga gangga 836

<210> 734
 <211> 694
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n=A,T,C or G

<400> 737
 ggnagccccc ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60
 cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
 tctct 125

<210> 738
 <211> 137
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n=A,T,C or G

<400> 738
 ggagncnctt gancaggatg accgacttca ggcctgtgcg ctcaatcggt gagaatctcg 60
 tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
 tctctctctc tctctct 137

<210> 739
 <211> 970
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(970)
 <223> n=A,T,C or G

<400> 739
 aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccgggtc 60
 cggaattcgc ggcgcggtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120
 atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180
 tgtgggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcatgaga 240
 cattttttct aactgagcat agccatgaac ctctcacgtc tgttcctctg tgcagtttg 300
 tancactgaa tacagcagcc ctcttaaaag tccaggcagt gcacaggctc tgacatgatg 360
 aagtgacgtg ttgctatggt gattttgcag ctggccaaat agtcactggt tgattttacc 420
 cagcaggaga tttttgcaaa aatttccttg gtgagagtga aatcaaactc ctattttgnt 480
 tctcctctgc aagctgnagt taagatggat taatgagtac ttttagatta attaaactctg 540
 aagagaaaaat gggagaaaag tgaggaagg tgttggcaga agtcattgct ggaatccttc 600
 tgaaggaggat actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
 tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720
 tacgcataatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780
 aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840
 aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat ntttaaacca 900
 aaantgaaga agggaaaaat ntttcccnt nttttntttt tttgccccct tgggattggn 960
 tttntttcc 970

<210> 740
 <211> 739
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(739)

<223> n=A,T,C or G

<400> 740

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gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccccnaa tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtgggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacagggtctt gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaaata gtcactgggtt gattttaacc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggtt 540
gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacag'nt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc
739

```

<210> 741

<211> 1171

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1171)

<223> n=A,T,C or G

<400> 741

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gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
attcgcgggc gcgtcgacgg cccttnntgc cactagtctt ttcattcttc ccccccatca 120
atcagtgaac tttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggattttcca gataatataa atattcaaca tgaatatttt aaattaaggc atgagacatt 240
tttcctaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agtttgtagc 300
actgaatata gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaaccagc 420
aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggattaa tggagtactt tttagaatt aaattaacct 540
cttgaaagaa gaaaaaatgg gggaagaaaa aaagtggag ggaaaagggn ttggttttgg 600
gccnaaaaaa aagttccaan tttnngcntt ggggaaaaat tccccntttt ccttggnaaa 660
aggggggnaa ggttaancct tgggaacctt ttccnncct ttnngccca aaaggggaac 720
ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaangggttt naaaaccntt 780
ngggcccccg ggccctctc caanaaggga aaaaaaaagg cctggaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttgcca atancnccat aattgggaat tatggggggg 900
ccatgggctt ttggtttggg cncctaacc cgcnttttaa attcaaanna aaaaaaagng 960
gtttggaaaa nnaaanaaaa aaaattnaan ggnccnanaa aaaaacctg gaaaaccttt 1020
ggaaaaaaat tngnngggg gccntttggt tggggggggt tnaaaaaacc ccctnggggg 1080
ttttttaagc caaaagggg gggaggggna aaanggtnc cttntttttt ttttnngccc 1140
cccttgggga atggnntant tcanggggcc c
1171

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<210> 742
 <211> 739
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(739)
 <223> n=A,T,C or G

<400> 742
 gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
 tgccactagt tctttcattc ttccconcca tcaatcagtg aacttttttag cctactcaaa 120
 gctttgctcc aatgcatagg atttatgatt gtgggggattt ccagataata taaatattca 180
 acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
 tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
 ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
 tggccaaata gtcactgggt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420
 tgagagtga atcaaactcc tattttgttt ctctcttgca agctgnagtt aanatggatt 480
 aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaaggtt 540
 gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
 aagagactan aagacaatga agttaaactt ggctgtctn tcatatgata gatgcttgag 660
 agtacaggnt cagggaat ttaattctgn catacgcata ttggattatg tgggtcatgg 720
 ctttgtttgg cncctaacc 739

<210> 743
 <211> 610
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(610)
 <223> n=A,T,C or G

<400> 743
 ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60
 taaatttttg atagacattc ccaaataatta tacctgtttt tgagaccttt aattcctggt 120
 gtcaaattgc cctatatatg gagtaataaa cacgatttaa agaaatgagg actaaaaaaa 180
 gattatatat aacccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240
 ttatctgttg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaaact 300
 ctaggtagga taccgaggt ccacaaattt ttcataagaa atattttttc tctgccctat 360
 gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaataatct 420
 atgatgaagg atttggagtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480
 gctctgngat cttggacagg tcaattgact tggcttaatc ttctcatcca tttagnngag 540
 acagcaccac tattcacagg actattgnen gaattaccag acaatagcat agngngaaaat 600
 ataangcctt 610

<210> 744
 <211> 127
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(127)
 <223> n=A,T,C or G

<400> 744
 ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60
 gcacgaggga gagagagttt gagagagaga gagagagaga gagagagaga gagananaga 120
 gagagag 127

<210> 745
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> n=A,T,C or G

<400> 745
 gatatcccgg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60
 ggaagctggg ctacgtcctg cccaggtcag ccttaggtta agggctgcct gggggaggga 120
 acttcctggg ccttcgggtc tctgtgcact ggggtggctc ctgtggccca gaatgccctg 180
 gagaagggtc ctactggaag cgaagggtgca gggcagcagg gcctgaggcg caggagctgg 240
 tggaggctcc cagcacaggc cgcgcgccca gtcacatcac tgctgatggg ggggggactt 300
 ggggagtttc ccccgagaat gggagggtctc acagtccccg tgctgcaatg ctgtcgggtg 360
 actgngncng caatgtgctc atggncactt gctttttctc tgtggccccg gccgatttat 420
 ccagcanngc acccctcttc tncctctcgg anaaagcc 458

<210> 746
 <211> 893
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(893)
 <223> n=A,T,C or G

<400> 746
 aagcaggctg gtaccgggtc ggaattcgcg gccgcgtcga cgtggggagt tagctctctg 60
 gaccccgctc tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120
 canngaaagt cctgccgact tcctggggaa gcccatccgc acgtgggggtg aggggtcccca 180
 natggaagca gctgtgtatg cagggagggg gcagaggctg ctgccaatgg gcatgtccct 240
 tacctgaaag ggccacctct ccagggtgaca tgtcctgggg gagccggggc cgtctgctcc 300
 ggccagaggc gctcagctca ggccacacca ggcagggcac ctcccaacct ggacagggtg 360
 ggaccaaggt ggccttggac aaaactctct gtgtttgcc aacacccaat cggacacaga 420
 gagtcaacca caccacagtc acatggtgtc cacacngcag gggtaagga ggcccgcccc 480
 ctccccctca gacgtccctg ggcctctggg agtcagcaag gacgaggacg gcattgccct 540
 togagacagg aaggaggtga cctcctccc ggcgcaccca ggctcngctt ctccggagag 600
 gagagggggc tacttgctgg ataaanccgc cggggccaca gagaaaaagc aaggtgacca 660
 tgagcacctt gcaaacacag tgcacccacc agcatttnag caccnnggac tgtgaagacc 720
 tcccatttct tcggggggaa acnccgcccc ngttcccccc accntcacta gtgnattgtg 780

acctgggggn cgggccgacc cctgtngctt gggnnagccc tccncccagg tttctnnggc 840
 ngccccntaa nggnccctng nttggccctt tggecnccct tncgcttttc cca 893

<210> 747
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(738)
 <223> n=A,T,C or G

<400> 747
 gatatcccgga gaattcgcgg ccgcgtcnac gaagcacaga cctgngccct gctctcatgg 60
 ggcagactgc catttgtcat tnattactga aggaaaggga tcctcagttt gcttgtggac 120
 atttcaaatt tgagggtgaga gttggataag taagaataaa gctgctcttc aaagagatga 180
 atatagaaaa agaaacaaga tacagncttg gcagtaaggc tgggaggaag gggaaaagg 240
 aataaagaat gaaagagtga gaaatgtgag caggagctga acacagaaaa gttcagngac 300
 agaagcanaa ggaggggaaga agggaggagg gtccctttca cagaggctca cgaggatgct 360
 ttatgngtgc catgcagtc atgttcagga tgtctgcttc ttanctctct acttttctaa 420
 tanaaatattg gatacttact gatcctacat atgtaacagg gagagaagg 480
 gcantaaatt gaaaaattgt tcacaatttc attttttaaa aaaaggaggc taacagaaga 540
 agaggttaat gtggttaatta taggatgnct cttgcgcac atgaatgnat ctggtatcat 600
 ctgagtggga ggggagctgt cttcctgacc caaaaggatc ctttcgttan ccgnactta 660
 ngccccaaaa cctcaccacc ttggagaaat natttccttt tgggggtntc attaaancct 720
 tttggncccc gcaaaagc 738

<210> 748
 <211> 647
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n=A,T,C or G

<400> 748
 cnttgtggcg gtggctgtct catttggtg gacttttttg gtcgtaggaa cctggtatng 60
 aggtcgagag taagacgggc tattagtagt cgcacggag ttatttgtga aaacctggtt 120
 agggcctctg tctccgctgc gctcgcctaa attggtatgg ctgcacttgg aaacacggtt 180
 ctaacacgcg ttgttagcgc ctttgctagc atgtgaagga cactggccct accaagaaag 240
 attcgagtcg ctccttcggt tatcggtcac ggaggcgata ttactcttc ttactacggt 300
 tacttcgaga ttgtctgtga agtttaagac tactaaaaag agtattaagc ctatcgggaa 360
 ttagctagat cgacacgcta aaaccaagg caatcggcgg aaatatagag gcaccaataa 420
 tagggcctac agaaggccc agggtagac tcacgtttta taccggccac gggagaaata 480
 aaaagataaa gtatacatcg ttttagcgtc ctcggaagcc ttcggtttta atgccaagga 540
 gtcggaagca tcgtcggcga gtaataaact ccatcgcgcc gagactatct acgacgcct 600
 ccttaanatc cgtaaattac tcccggaaag agtatntag cggtct 647

<210> 749
 <211> 642
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(642)

<223> n=A,T,C or G

<400> 749

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ctntgtggcg gtggntgtct catttgggtg gacttttttg gtcgtaggaa cctgggtatgc 60
aggteccgcg agcgtgggct ctcgctcgtg atgttggggg ttggtgtggt gccggttggt 120
tttggttctg ttgagcgtag tgtgtttgaa ggtagcgtt cgtgtcttgc ttgtggtttg 180
gtgtttaggg cgggtgggga ggttggttggt tagctgttgt atgtcatatt gttggtgttg 240
ctgccctgtg ctgtttgtcc ttggttattg tggttgttac ccgcctgtg tggaagtgtt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggaccc gtggttggtg ttacgttgct 360
gcttttgtcg tgggcggtgg cggcgcgtct gataattaga attggatacg gagtgtataa 420
tacttctagt aaatggggac ctagtgtttg acttcccgga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc cacgacccta aaattataca cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
tcg gatagga aacaagagaa ctaattttng ttaaaaagac tt 642

```

<210> 750

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(639)

<223> n=A,T,C or G

<400> 750

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tttgtggcgg tgggtgtctca tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
gtatagatgc cgattgggtcc cgacgagcgt cagcataaat tcggtagttt cgcccttttt 120
agaaggcgct agtactcgga acttcacttc atctcggtag tttacttttg cgtatatagc 180
cttctccctc gaagactage cgtcacattc gttccctagg aatcgtttct gcccctaaga 240
atccgagagc gagatcccgga aactagagga accttagaag agtcgtatth ccacaaggac 300
cccacagtca ttccgggaaa atccctagga ccatacgggt aggattcccc cggaaccggy 360
agcaaagctc atgatttccc acaccgagag agcgccctata accctatccc atttcttcgg 420
gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaaactc aggtcttaag ggggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcgggagc ggttcataga cgggtgtccg 639

```

<210> 751

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(637)

<223> n=A,T,C or G

<400> 751

```

cttttgtggc ggnggtgtct catttgggtg gatttttggg tcgtaggnaa cctggtatng 60
aggcagctct gagccccccc ccccccccc ccccccnc ccccccccta ggnggttggg 120
aanacggtgg atacctaaat cgagtgngtt cattaaaagt agttgattac nccctaaaaat 180
aanaanaggg cttcgtcggg anaaatcggg aagganaagt ctttntggca tcataanaat 240
actggctcgg gtcctaanat nttaagng gtcnccgagg gtnttcatac cgataanaaa 300
cgttttccta tcggcaacgg gcttacctga gggnggactt ctncggngc ggngattnan 360
acgaanacgt agaggattnc cgtacttnt tganatcacn cgtatcatac ttgtaagcat 420
aattntcctg aaaagtgtta taanaatacg cncgcataatt cgcttttttcg tcctagggat 480
gcttaaatgg cgatactgct atagcgggtg agcgttgggt ctcgagnaana aaagcgtgctc 540
ctaatacgctc taaggnttta agnccgttgg tttaaaaata nccttagaaa cctcgaggcg 600
gatactgggtt tntttttaac gaaacaaagc accccnn 637

```

```

<210> 752
<211> 644
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```

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<400> 752
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgaggtc 60
ttgcgagttg ttggtgtgtc ctgctgttcg gtgggtccct tttgagttga gtttgtcctt 120
tgaggttggt agctgctgtt cgtttgtgtt cgtgtagtgc tttgggttga gagggttatg 180
gtgggtggta cgtgtatttg tcgcccggtg tcgcgggggt ggggtggctg tcggttttgt 240
ggttcatagt agtcttctgc gttcggtggt gcggttttgg gtgagtagtt tcgttcttgg 300
atgtcccat gacccgccat aatctaagta aggttagta gaaacctct cccgatagac 360
acaaccgtcg tccactaaag acctgcctc tgatttttaa aaggaccga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtccgtca ttatatgtct cctcggagga ggaagcggcg gtggcgga 540
atgaggcggg aagaaagacg acctctatcg gcggcttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggacgcctcc ttctcggatc gtcc 644

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<210> 753
<211> 635
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(635)
<223> n=A,T,C or G

```

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<400> 753
ctttgtggcg gtggtgctca tttgggtgga ttttgggtc gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccct ccgaagcaga gccaaccca aagtccaccg 120
actaccgag taaactctcg gagggtagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag ccgttaggac agcggacgga acattnaaga aagagcctat attagggagg 240
aagtaacgtt cctctttcgg agctctttaa gggtagtcc cagaacaagg gaagaggacc 300
cgtcggtat tgcccgtcga tacgggctct cacgngagc ctaggttcga ggatagggcc 360
gctcgtaaaa ttatacgggt tccgagaaac gcttccgtag accgggtcct aaatcgccg 420
gagtattngg agagggatcc ttcggaccct agggacagag agaggagaa ggaggttaca 480

```

```

ggaggagaac gtntcctcnc tagttttctt tangtcgaaa aatttcttac cgataggggtt 540
cctaggggtcg gngaattttac ggttcgaaaa acggtagtnc ctaanggntg ntattngggg 600
tagtatcggg tcgtttacaa ntcgtccgtc ttntg 635

```

```

<210> 754
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

```

```

<400> 754
accggattng ttntctgagcg cgtgactgct aataaaaaaag atggantgcc atctttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcnggggt ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gtttttagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagtgt gatgcctgca acttaccaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agagggagaa taaggagttc tcccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc ttgtcttctt cccaccctc ttctccagct ctctctctgt 540
ctctctcttg ntcccctgac ccttttttct tccantgca tacttttttn ttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```

```

<210> 755
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

```

```

<400> 755
accggattng ttntctgagcg cgtgactgct aataaaaaaag atggantgcc atctttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcnggggt ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gtttttagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagtgt gatgcctgca acttaccaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agagggagaa taaggagttc tcccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc ttgtcttctt cccaccctc ttctccagct ctctctctgt 540
ctctctcttg ntcccctgac ccttttttct tccantgca tacttttttn ttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```

<210> 756
 <211> 873
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(873)
 <223> n=A,T,C or G

<400> 756
 ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60
 ggaaactgtc agcctgtctc tttcactttg ggcaagtga agcaaagacg tccagtccta 120
 tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctgggc tgagtagagg 180
 ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240
 atgccaatga gcactcatta taacccgccc tattttatag gatttaattt tacacttcag 300
 gcttaatcag tctgaaagt aaactgacag tgtaaagtta cggaatcaat gacatttagg 360
 ctttatgact ttgtagctga atatctatgg gctatatctc cattctaaca gtgatatact 420
 gttccagaat ctcatctctt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
 cacacccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
 gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600
 ctgatgccaa cgaanaaccc aaagcgcctc cccttccaga tggaagctgc cccacactgg 660
 gctgacagca tctggagctg ctctggctca aatcccgaa tcgcacanct cctanccggg 720
 gcgtttanag atcctcnggg ccagctaccg accacttttg acaagggnct taggagcgat 780
 aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
 atggcncccc caaataantt gggaaaantn ggg 873

<210> 757
 <211> 782
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(782)
 <223> n=A,T,C or G

<400> 757
 ggccctcga gggatactct agagcggccg ccgactagt agctcgtcga cgatatcccg 60
 ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
 atctgtgaag tggagaggcg ctttgggctt ctctgttggc atcagggtgcc catacctagg 180
 gcagctgtgg aagtgtcagc gtctcctctg agaggaactc ctgctccggg ggtcctcag 240
 tccttcgctc agtatgctgt aaagcaccca catggtaatg ggtgnggact ggtaccatga 300
 ctgntccctt aaaaggtggc cttcccaag aaaggagaaat tcttggacna gggatttcac 360
 ttgnttagaa atgggaaaaa ttaccattta gaattttcgn ttccaaggcn tnaagnccca 420
 aaaggccttt gattcccga ccttaaccct gggcagttaa cctttcaaac gggataaacc 480
 ctgangggga aaatnaaatc ctttaaaaaa gggggggttt naaggagggc tctttggctt 540
 tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
 aacctttact taaacnaacc cttgnccccc catttggggg tgactttcan cctaattgct 660
 gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaacg ggtgccantt 720
 cccangggat tanttccga aaatttggnn aatttttntt tgnaactttt tgggtttttt 780
 cc 782

<210> 758

<211> 647
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n=A,T,C or G

<400> 758
 ntttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
 gggaagagcg ccgtcgggcc gagtacagta tggagtagta tagtcttcgc gccttctcgg 120
 gcggcggggc tattctctcc aaaggcagag gtccctagtc gacctcgctc ccctaggtta 180
 ggaacagccg tcgaatattt taggttcgtc gaggttttct tccgagctct acgcctaagt 240
 agctccgcga gcaaagtatc ggtcattttc ccctatccat cactccccta agtacgcctc 300
 attattccgg aaggcaagag gccagcattc ctcccttagag tagagggtag gtacctccgt 360
 cgcgtgccgc gaaagggcag agcttcgtgt ctccctcccg cagcagctta acggtctacg 420
 taggcgttct cgatcttttc acgggaatcg gggtcgggga gggcggcgga aaacgtcgac 480
 gtctcggta ccgtcacgcg cccgaacaac tagcggcttt ccgctttcaa ctgaggaacc 540
 ccgcacccct cattagcgct tacgaaatcg gggangtgat tgcgccaatt cgttagcctt 600
 cgataattat tctctattag cggtcctatc tcgcgcttcc gatttat 647

<210> 759
 <211> 657
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(657)
 <223> n=A,T,C or G

<400> 759
 ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
 gggctctata gaaagcctct tgtctttaga tacgggcttt ctggctcttc gttctggaag 120
 tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180
 gcttattcta tagttccttc gggacataag gtcggtacga tctatactgc gtgggaagct 240
 gataggttgg gacttaagggc gaataagaag gaggcggcgg aggtcgcgat taccgcagag 300
 atattattta cggcggccgc gggtaaccgc ggtcatgcgg aaattttctg aggttcttgg 360
 attcctaaga tcgctcccgt cgagtatact agcgacgaac gtaagagtgc cctcacaaga 420
 accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggg aggacgagga 480
 cggtaagaag taatcggaga aaggatccta gtngttacga agaagcatcg ttnagctact 540
 ttgcgctacc gtttatattt agacgtgttc cgtccttctc cgtgtttana aaaaagggtt 600
 attccgacgg gagacttagg cgaatggagg gttccgcggg tganaatcgg ancgggg 657

<210> 760
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(644)
 <223> n=A,T,C or G


```

<400> 760
ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatgna 60
ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120
tacggacgtc gttaaccccg agtagccccc gtaagaaagg actaaagcga atggaaaagt 180
cgggaattcc ggcgaggagg cggcgattac tgaaaggagt aagagtaaga ctattgcgat 240
acttgaggcg ttccctctta aaaggcaccg gaaacactct attaaaaaac acccgaagaa 300
gaacaactca tgcgatcggc cgtgtgcagc cgtcaatagt aaagagagcc atgaaccatg 360
ccatccttag accaattagg atgaagaaga ggaggaagat gaggaccaa ccctaccac 420
tcggaaaacc ccgcacgagc ctccgaacaa aatccgggaa ttaaacggc ggcccacttc 480
cgcaactctg tagcgcgac cgaatagaaa accggaaact acagctaaag ggtcctttcc 540
ggcctgttat ctaccaccc gcaatccgat cctccccccc cctcgtccaa aaaccctaac 600
ctctgcggca acattagagc agaaggagag ggcgatccct tgan 644

```

```

<210> 761
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

```

<400> 761
ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatnga 60
ggcgggtact ctctgggata atcggtataa gtgttgtaaa attgggggta agagaaagt 120
tcattataag aagtggaagc acgagccggg gtgttttagtc gttaatatta agaccggttt 180
ttgttgtagt tatatagctt gcgcgtggg aggcaataag aaacattgcg tttcgaggcc 240
ggatgcgggg aaccctcttc ggggtctaga gcgccgcac tgcaaaataa ggactactga 300
cgccgctcat aacgtactca acaatgagtc ggcctgcatt aagatttcgg cgaagaaccg 360
tactgcgtct actgatagta tattgcattg atagcggcat gagctttatc acgtgtcgtt 420
ttcgggttgt aagaaggag ttaagtcgat cttcgaggaa gaagagaccc caaataaaaa 480
atgactcaaa aaaacctaga agaaacacga cgaaaggaaa aagaacgtta aaactagtag 540
ctcttcggan gagtagcctt agtagggtaa gtctccgtg cgtactgtcc taagggttgg 600
atagcgcggt tgaatagacg gtcacgcgtc agaaggtaaa aanccgg 647

```

```

<210> 762
<211> 628
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(628)
<223> n=A,T,C or G

```

```

<400> 762
cattgtgttg gggtcactga gccactttt ttccagattt tttgtaaaat tgtttcgc 60
tgtgttcctt ttattcgctt gtattaatat ttgcgtagt gattaaaca atacttgggt 120
ttgactgtca gtcttagagg actgactaga agtagttttc atttggggct caggaaatac 180
ctactttata tttctagcta attaggaaag tcatttttca gttagggttg tgttttgggt 240
caggcactcg ctagctagat gacctaacat gctacttaat ttctgagtgt ttgtgtccat 300
ccctgtagga ttgttgcggt gttaaataaa attgtgtata tttgtaaagc atttacctca 360

```

```

gtgcccagac tgtgacagag tagattatta ggcttgctct tatttctgtg attaaattta 420
gtgtcagatt agcaacctat agctacttct aaagctgctg ctgctttctt tgtttagggg 480
taggaagaaa catgctggac agtttgccaa atgagagtta catgatgtgg cttgtgggaa 540
cattctaact tggaaacttg ccatttccag gactttgngg ttcanagatt tttggggata 600
gatgtaaggg ttaaaaaaaaa cngaaaaac                                     628

```

```

<210> 763
<211> 147
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(147)
<223> n=A,T,C or G

```

```

<400> 763
cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttattgg aatttcaaat 60
gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120
ttttttttat gcacaccacc ttcnnggc                                     147

```

```

<210> 764
<211> 146
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(146)
<223> n=A,T,C or G

```

```

<400> 764
cattgtgttg ggtatgtttt ttgaaggcag gtggacagga tttgctgatg ggtaaattggc 60
agagttaggg ggactgttag aacagagaaa ganatcatgg ggttgggttt gagtctgatg 120
nnnaactggg gccgnntgct cagtat                                     146

```

```

<210> 765
<211> 129
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(129)
<223> n=A,T,C or G

```

```

<400> 765
tncncgattc gntnctagcg tntacactna tgtcttggtg ccgagctcgg atccactagt 60
ccagtgtggg nggaattcca ttgtgttggg gcaggaggng ctttgngtac ngtgcggcgt 120
nagaggcgg                                     129

```

```

<210> 766
<211> 175
<212> DNA

```

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(175)

<223> n=A,T,C or G

<400> 766

```
cattgtgttg ggcctagtcc gaatactttt agtaacttca gacagatctc ctcattctctt 60
tctggggctt ggnntttctc ctttgtanaa tgatgccttt ctgtgggttt gtcattttcta 120
acattctgtg ngtgatgagg tgtatatctg angantctca tcnccanagt actct 175
```

<210> 767

<211> 602

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(602)

<223> n=A,T,C or G

<400> 767

```
nnntttaaaa nctgtntctc ccgcgggtggc ggccgctcta gaactagtgg atcctttcca 60
cctggtttgt tttcagtgtt taatcctatt agtatcagca ggatataggt caggatatca 120
ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180
aatgagtgag agtacaaaagt tcaagccctg ttgagggtct gcattaaact ctcagaagta 240
tttagagtgt gccaggagcc gcgaaggctc gggtcgggtg gtggcgggaa ctgtattaga 300
gtgctaggca cggcgcgaca aagtctgtcc aacccaaaac ggtgctgagg cggtgggtgt 360
gagctccagt actcagaaaa gcattctcagc aggtactcaa cagatcctca ggggcttggg 420
ggccagcac tggcagttag ggcatgaaag acataaaaagg gcactacctg tgggtatttt 480
ctgtttctca aggaggaagt agcaaaaatt aggacgctgg aatatcctat gttgtagcaa 540
tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aattttaatct 600
ta 602
```

<210> 768

<211> 671

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(671)

<223> n=A,T,C or G

<400> 768

```
tccaccgchg tggcgggcgc tctagactag tggatccact agtccagtgt ggggtgggaat 60
tcgcggnchg cgtcgacaaa aatactgcta aagtaatat tttatagatg actatattgcc 120
ttggggccag gaaaagcagc tggagtatt cacttagtac cttttttaca tactaaactt 180
gccttttcca tgcttgcttg atgcggcttg cagcactgaa gaacagtttc aattgctagc 240
caaccagaga gcatgatcaa accaaacaag ttccctgttt caggaaaaaac aggttttagg 300
taactgaagg gttaccagtt actgattcca caatcttctc tgtaaaanat ttctgcctat 360
tatgcagact gggcggtctt aaanntggta aaactatnaa ataccatac aatattttta 420
nggggccccn ttatnaagct ttccaggcct tcccctttcc atagcattgg tgggatacaa 480
```

```

gaaaccttta aacagcaacn agctatcnag gcccaaaagg aaagtaattn tgatttttta 540
nagattccgn aacgaaaaaa tggctgggtt caaatcnac cttcttttta aaatggnttc 600
cttattaaac nttttttttt tttaatttta ccccatgggc ntgatnttng ngcttccgcc 660
canaaaatng n 671

```

```

<210> 769
<211> 877
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(877)
<223> n=A,T,C or G

```

```

<400> 769
aaagctggag ctccccgcgg tggcggcgcg tctagaacta gtggatccac tagtccanng 60
ngggggaatt cgcggcgcgg tcgaccteta tacctttgnt catgcagctt cctctgactg 120
ggtttgttct tcacttggct aacctctctt ttacttaage acaccttgaa cattccctcc 180
ttccccattt ccccgagng cccctaattg acatacttct gaataacaca ggtgggtattc 240
cttccttgtt ggaacctctt ggaggaagag acagatgatt aacaaatcct tccatcaacc 300
cctttgacca tgacatcaac agtgctccaa attatggggt accgtattag cctatgtcta 360
tcttgatcag aatccttacc tcggtgtatt gaaattatct atttcgtgcc tgccctctta 420
aagtcagggt ttgccttata tattgtctaa caccatgcag taggtaacat gcagtaggaa 480
acatggcatt aaattatttg ggttcaaate ccagttatgg tgtgtaaatt cctaccaggc 540
cgtgaggcac ctgctaagca ggttgcaagc atcatttgaa ttcacaccac ccttttgcaa 600
tagaacagat aggcaacaga ggctcatttg ggctaaagga tttgatggag gggaagtgcc 660
aggattccca ccaaggcctc anggccagg tccanggacc atgtctgttg tgacaactgg 720
agtgcatttc atatccctn ctctgngggg naaggctcct cncgnggaga acnnttaaaa 780
caatcatntc tngggggntt aatgcttctt nccccagtgt ggtncactgc ngccacgagt 840
cccancact agtcccangt ctgtcatgaa ccancce 877

```

```

<210> 770
<211> 874
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(874)
<223> n=A,T,C or G

```

```

<400> 770
ctggnctccc cgcggtggcg gccgctctag aactagtga tccactagtc cagtgtggtg 60
gaattcgcg cgcgctcgac cttttcaaag gttaacttat ttaattatca cannnngaac 120
ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg ctaaataaac 180
tgcccaattt cgaacagtga gaggaagaat taggattgaa acacatatag tggcttcaga 240
atctgtaacc ctacagatgc cactactact tctttcagaa taccctttgc ctatctattc 300
tgttcctatg tcatcaaatt ataactactt taaaaagtat ttgtctttat tattttttaa 360
aaaacacagg gaagtatttc tgatcagggg cagtatttgt tctgaaagac aagccagtgt 420
ttttgagggt ttctcccttg ccagtttttc tatgctgggt tattcaagtc ctaagaattg 480
tgtagctatt acagaaccgc tttagcaaat gtgttccatt aatcaagggt atttataaca 540
aaatttcata caagtttgga gtgctctgaa aacatagcca aaatgttcgc aggggtctacc 600
cctctcgtgt gtcccttttt tttagctatt tcagaagcac actggtgcaa tattttacga 660

```

```

aatgagtttc ttccccttac ctctgcatcc tctaagaaaa aatcattgnt gttttatgaa 720
natgaanatc ctgctatttc atatcttgat tggagctgct taattaaatg accatttttna 780
aatttgtttt gattccnngc aaaaaaagtt tnttnttgga tgtagggggc tcnnaaagnc 840
caaaaccccc caaaattttt nnttggaac ccna 874

```

```

<210> 771
<211> 156
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(156)
<223> n=A,T,C or G

```

```

<400> 771
ttaaaaaanct ggntcccccg cggtggcggc cgctctagaa ctagtggatc cactagtcca 60
gtgtggtgga attcgcggcc gcgtcgaccg cgagcggtcg cccttttttt ttttttttn 120
ngtttttttg aanaattcat tgggtattta ttattc 156

```

```

<210> 772
<211> 586
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(586)
<223> n=A,T,C or G

```

```

<400> 772
ncaanctggn ctccaccgcg gtggcgccgc ctctagaacta gtggatccac tagtccagtg 60
tggtggaatt cgcggcccgcg tcgacacaaa agtgcacaca agtcnngnat ttattttatc 120
tccagatatg aaacttacct ccagctatgg tcttctatct gttatttaat ttctaggcca 180
attttttcca cttgaatgtc agtatcttaa ttcaaagtca ccttgtccaa ataccaagtc 240
atcaacttac cctcaaatta tatcctcatt cagaaaatct acatctatta atggtagcta 300
ttttatccct gccccctgct ttttcttttt atattttaatt aatttgntca tccagcaaat 360
gcttattgag caggatttgt aggctaaaca attctanact ttaaggggac acagnttgca 420
aaacaaaatc ctgccttgna tggatactta tgnnatggng ggatacagac aatcaacata 480
atgangngca tcatatataa tggttagnan aatgataagg gnttttgga aaaaaatgca 540
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Gln	Val	Met	Asp	His	Ala	Phe	Leu	Leu	Leu	Ser	Ser	Glu	Arg	Glu	His
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Ser	Lys	Thr	Tyr	Ile	Asn	Ser	Leu	Ala	Ile	Leu	Asp	Asp	Glu	Pro	Val
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Ile	Arg	Gly	Phe	Ile	Ile	Ala	Glu	Ile	Val	Glu	Ser	Lys	Glu	Ile	Met

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 Glu Ser Leu Gly Ile Ser Ser Leu Gln Thr Ser Asp His Gly Thr Val
 625 630 635 640
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 Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
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 Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
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 Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
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 Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
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<211> 1095

<212> PRT

<213> Homo sapiens

<400> 778

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Val	Asn	Phe	Ile	Gln	Ala	Asn	Phe	Lys	Lys	Arg	Glu	Cys	Val	Phe	Phe	
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His	Leu	Lys	Thr	Pro	Asn	Leu	Val	Ile	Ser	Val	Thr	Gly	Gly	Ala	Lys	
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Leu	Tyr	Ile	Leu	Asp	Asn	Asn	His	Thr	His	Leu	Leu	Leu	Val	Asp	Asn	
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Glu	Lys	His	Ile	Ser	Glu	Arg	Thr	Ile	Gln	Asp	Ser	Asn	Tyr	Gly	Gly	
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 Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu

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<211> 3639

<212> DNA

<213> Homo sapiens

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Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp

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Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp		
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Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val		
	370	375 380
Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser		
	385	390 395 400
Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn		
	405	410 415
Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu		
	420	425 430
Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp		
	435	440 445
Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe		
	450	455 460
Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr		
	465	470 475 480
His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val		

485 490 495
 Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu
 500 505 510
 Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys
 515 520 525
 Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val
 530 535 540
 Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile
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 Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg
 565 570 575
 Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu
 580 585 590
 Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu
 595 600 605
 Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr
 610 615 620
 Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu
 625 630 635 640
 Ala Trp Gly Gly Ser Asn Cys Leu Glu Leu Ala Val Glu Ala Thr Asp
 645 650 655
 Gln His Phe Ile Ala Gln Pro Gly Val Gln Asn Phe Leu Ser Lys Gln
 660 665 670
 Trp Tyr Gly Glu Ile Ser Arg Asp Thr Lys Asn Trp Lys Ile Ile Leu
 675 680 685
 Cys Leu Phe Ile Ile Pro Leu Val Gly Cys Gly Phe Val Ser Phe Arg
 690 695 700
 Lys Lys Pro Val Asp Lys His Lys Lys Leu Leu Trp Tyr Tyr Val Ala
 705 710 715 720
 Phe Phe Thr Ser Pro Phe Val Val Phe Ser Trp Asn Val Val Phe Tyr
 725 730 735
 Ile Ala Phe Leu Leu Leu Phe Ala Tyr Val Leu Leu Met Asp Phe His
 740 745 750
 Ser Val Pro His Pro Pro Glu Leu Val Leu Tyr Ser Leu Val Phe Val
 755 760 765
 Leu Phe Cys Asp Glu Val Arg Gln Trp Tyr Val Asn Gly Val Asn Tyr

770		775		780
Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu Phe Tyr Phe				
785		790		795
				800
Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu				
		805		810
				815
Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile Phe Thr Leu				
		820		825
				830
Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile				
		835		840
				845
Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu				
		850		855
				860
Phe Ala Xaa Trp Met Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu				
		865		870
				875
Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr				
		885		890
				895
Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly				
		900		905
				910
Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys				
		915		920
				925
Pro Leu Cys Val Glu Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu				
		930		935
				940
Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile				
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				955
				960
Leu Leu Val Asn Leu Leu Val Ala Met Phe Gly Tyr Thr Val Gly Thr				
		965		970
				975
Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu				
		980		985
				990
Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val				
		995		1000
				1005
Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys Cys Cys Cys				
		1010		1015
				1020
Lys Glu Lys Asn Met Glu Ser Ser Val Cys Cys Phe Lys Asn Glu Asp				
		1025		1030
				1035
				1040
Asn Glu Thr Leu Ala Trp Glu Gly Val Met Lys Glu Asn Tyr Leu Val				
		1045		1050
				1055
Lys Ile Asn Thr Lys Ala Asn Asp Thr Ser Glu Glu Met Arg His Arg				

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<210> 794
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 5 10 15

<210> 806
 <211> 15
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 5 10 15

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Ser

<210> 810

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<223> PCR primer

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35

<210> 816

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

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<212> DNA

<213> Homo sapiens

<400> 817

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tgtggctatg	cccagagcca	gcacatggaa	ggcaccaga	tcaaccaaag	tgagaaatgg	240
aactacaaga	aacacaccaa	ggaatttcct	accgacgct	ttggggatat	tcagtttgag	300
acactgggga	agaaaggga	gtatatacgt	ctgtcctgcg	acacggacgc	ggaaatcctt	360
tacgagctgc	tgaccagca	ctggcacctg	aaaacaccca	acctggatcat	ttctgtgacc	420
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tacatcgcgc	agtccaaagg	tgtcttgatt	ctcacgggag	gcacccatta	tggcctgatg	540
aagtacatcg	gggaggtggt	gagagataac	accatcagca	ggagttcaga	ggagaatatt	600
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tgcgatgctg	agggctatct	tttagcccag	taccttatgg	atgacttcac	aagagatcca	720
ctgtatatcc	tggacaacaa	ccacacacat	ttgtctgctg	tggacaatgg	ctgtcatgga	780
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acatcttctg	ccgtcaagga	gaagctggtg	cgttttttac	cccgcacggg	gtcccggctg	1080
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<212> PRT
<213> Homo sapiens
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Ser Ser Ala Ser Arg Ser Thr Asp Leu Ser Tyr Ser Glu Ser Asp Leu
20 25 30

Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
35 40 45

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
50 55 60

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
65 70 75 80

Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
85 90 95

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
100 105 110

Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
115 120 125

His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
130 135 140

Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
145 150 155 160

Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
165 170 175

Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
180 185 190

Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
195 200 205

Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
210 215 220

Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
225 230 235 240

Leu	Tyr	Ile	Leu	Asp	Asn	Asn	His	Thr	His	Leu	Leu	Leu	Val	Asp	Asn	
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Gly	Cys	His	Gly	His	Pro	Thr	Val	Glu	Ala	Lys	Leu	Arg	Asn	Gln	Leu	
			260						265			270				
Glu	Lys	Tyr	Ile	Ser	Glu	Arg	Thr	Ile	Gln	Asp	Ser	Asn	Tyr	Gly	Gly	
			275						280			285				
Lys	Ile	Pro	Ile	Val	Cys	Phe	Ala	Gln	Gly	Gly	Gly	Lys	Glu	Thr	Leu	
			290						295			300				
Lys	Ala	Ile	Asn	Thr	Ser	Ile	Lys	Asn	Lys	Ile	Pro	Cys	Val	Val	Val	
305						310						315			320	
Glu	Gly	Ser	Gly	Gln	Ile	Ala	Asp	Val	Ile	Ala	Ser	Leu	Val	Glu	Val	
			325						330						335	
Glu	Asp	Ala	Leu	Thr	Ser	Ser	Ala	Val	Lys	Glu	Lys	Leu	Val	Arg	Phe	
			340						345						350	
Leu	Pro	Arg	Thr	Val	Ser	Arg	Leu	Pro	Glu	Glu	Glu	Thr	Glu	Ser	Trp	
			355						360						365	
Ile	Lys	Trp	Leu	Lys	Glu	Ile	Leu	Glu	Cys	Ser	His	Leu	Leu	Thr	Val	
			370						375						380	
Ile	Lys	Met	Glu	Glu	Ala	Gly	Asp	Glu	Ile	Val	Ser	Asn	Ala	Ile	Ser	
385						390						395			400	
Tyr	Ala	Leu	Tyr	Lys	Ala	Phe	Ser	Thr	Ser	Glu	Gln	Asp	Lys	Asp	Asn	
			405						410						415	
Trp	Asn	Gly	Gln	Leu	Lys	Leu	Leu	Leu	Glu	Trp	Asn	Gln	Leu	Asp	Leu	
			420						425						430	
Ala	Asn	Asp	Glu	Ile	Phe	Thr	Asn	Asp	Arg	Arg	Trp	Glu	Ser	Ala	Asp	
			435						440						445	
Leu	Gln	Glu	Val	Met	Phe	Thr	Ala	Leu	Ile	Lys	Asp	Arg	Pro	Lys	Phe	
			450						455						460	
Val	Arg	Leu	Phe	Leu	Glu	Asn	Gly	Leu	Asn	Leu	Arg	Lys	Phe	Leu	Thr	
465						470						475			480	
His	Asp	Val	Leu	Thr	Glu	Leu	Phe	Ser	Asn	His	Phe	Ser	Thr	Leu	Val	
			485						490						495	
Tyr	Arg	Asn	Leu	Gln	Ile	Ala	Lys	Asn	Ser	Tyr	Asn	Asp	Ala	Leu	Leu	
			500						505						510	
Thr	Phe	Val	Trp	Lys	Leu	Val	Ala	Asn	Phe	Arg	Arg	Gly	Phe	Arg	Lys	
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Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val
530 535 540

Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile
545 550 555 560

Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg
565 570 575

Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu
580 585 590

Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu
595 600 605

Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr
610 615 620

Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu
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Ala Trp Gly Gly Leu Glu His His His His His His
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<210> 819

<211> 132

<212> PRT

<213> Homo sapien

<400> 819

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Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
35 40 45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
50 55 60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
65 70 75 80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
85 90 95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
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 agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatgtt 540
 ttgctgcaaa ataaagagag cctattttac aagatgggtgc aacaactggg caaggcagaa 600
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<210> 823
 <211> 291
 <212> DNA
 <213> Homo sapiens

<400> 823
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Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys

115						120						125					
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130						135					140						
Lys	Lys	Asp	Leu	Gln	Leu	Leu	Glu	Asp	Gly	Asp	Leu	Thr	Val	Ile	Gly		
145					150					155					160		
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Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile	Tyr	Leu	Leu	Asp	Asp	Pro		
			180					185					190				
Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg	His	Leu	Phe	Glu	Leu	Cys		
		195					200					205					
Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr	Ile	Leu	Val	Thr	His	Gln		
210						215					220						
Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile	Leu	Ile	Leu	Lys	Asp	Gly		
225					230					235					240		
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			245						250					255			
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			260					265					270				
Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn	Arg	Thr	Phe	Ser	Glu	Ser		
		275					280					285					
Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro	Ser	Leu	Lys	Asp	Gly	Ala		
290					295						300						
Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro	Val	Thr	Leu	Ser	Glu	Glu		
305					310				315					320			
Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln	Ala	Tyr	Lys	Asn	Tyr	Phe		
			325					330					335				
Arg	Ala	Gly	Ala	His	Trp	Ile	Val	Phe	Ile	Phe	Leu	Ile	Leu	Glu	His		
		340					345					350					
His	His	His	His	His													
		355															

<210> 827

<211> 96

<212> PRT

<213> Homo sapiens

<400> 827

Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala
 5 10 15

His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp
 20 25 30

Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn
 35 40 45

Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu
 50 55 60

Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met
 65 70 75 80

Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His
 85 90 95

<210> 828
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 828
 cgcccatggg gatccgggag aaatttgccc actgc 35

<210> 829
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 829
 cgcctcgagg gagtttgaga ccagcctggc caaca 35

<210> 830
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 830
 gcatggacca tatgtcagcc attgagaggg tgtcagag 38

<210> 831
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 831
 ccgctcgaga ataaggaaaa tgaagacaat ccag 34

<210> 832
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 832
 gttgaattca tgcacggggc ccagggtg 27

<210> 833
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 833
 cccctcgagt cactatgggtc tgcctcttga 30

<210> 834
 <211> 915
 <212> DNA
 <213> Homo sapiens

<400> 834
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcacatcc cggtgacgtc atctcggtga cctggcaaac caagtccggc 360
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggcgaatt catgcacggg 420
 ccccagggtgc tggcacgctg ctccgagtggt gcttgtcctg ccttggctgc cacctctgcg 480
 ggggtgcgtc tggaggggt ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540
 ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600
 aaagcagatg gcccttgccc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660
 gcgagtggag ttggtggctg tgccccccage tccctggcgc ccctcgcaga ggtgactggg 720

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<210> 835
<211> 304
<212> PRT
<213> Homo sapiens
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Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
5 10 15

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
35 40 45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
50 55 60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
65 70 75 80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
85 90 95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
100 105 110

Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr
		115					120					125			

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met His Gly Pro Gln Val Leu
130 135 140

Ala Arg Cys Ser Glu Cys Ala Cys Pro Ala Leu Ala Ala Thr Ser Ala
145 150 155 160

Gly Val Arg Leu Glu Gly Val Asp Arg Pro Pro Thr Leu Pro Ser Gln
165 170 175

Gly Ser Gly Trp Pro Cys Ser His Ser Leu Ser Gly Cys His Leu Met
180 185 190

Ala Asp Gly Ala Lys Ala Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr
195 200 205

Leu Phe Val Arg Arg Thr Asp Val Pro Cys Pro Ala Ala Ser Glu Val
210 215 220

Gly Gly Cys Ala Pro Ser Ser Trp Arg Ala Leu Ala Glu Val Thr Gly

225		230		235		240
Cys Ser Leu Gly	Pro Leu Gly Leu Ala	Gln His Ala Gln Ala	Ser Val			
	245		250		255	
Leu Leu Leu Cys Tyr Lys Trp Ser His Ile Gly Glu Thr Ser Ser His						
	260		265		270	
Leu Arg Ser Lys Val Tyr Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu						
	275		280		285	
Lys Gly Leu Met Ser Leu Trp Ala Ser Trp Leu Ser Arg Gly Arg Pro						
	290		295		300	

<210> 836
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 836
 cgaagtcacg tggaggccag cctc

24

<210> 837
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 837
 cctgaccgaa ttcattaact ggccctggac

29

<210> 838
 <211> 166
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(166)
 <223> Xaa = Any Amino Acid

<400> 838
 Met Gly His His His His His Val Glu Ala Ser Leu Ser Val Arg
 1 5 10 15
 His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile

20 25 30
 Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser
 35 40 45
 Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly
 50 55 60
 Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val
 65 70 75 80
 Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp Pro
 85 90 95
 Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gln Xaa Gln Xaa
 100 105 110
 Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr
 115 120 125
 Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val Gly
 130 135 140
 Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile Glu
 145 150 155 160
 Lys Thr Val Gln Ala Ser
 165

<210> 839
 <211> 504
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(504)
 <223> n = A,T,C or G

<400> 839
 atgggccatc atcatcatca tcacgtggag gccagcctct ccgtacggca cccagagtac 60
 aacagaccct tgctcgctaa cgacctcatg ctcatcaagt tggacgaatc cgtgtccgag 120
 tctgacacca tccggagcat cagcattgct tcgcagtgcc ctaccgcggg gaactcttgc 180
 ctcgtttctg gctgggtct gctggcgaac ggcagaatgc ctaccgtgct gcagtgcgtg 240
 aacgtgtcgg tgggtgtctga ggaggtctgc agtaagctct atgaccgcgt gtaccacccc 300
 agcatgttct gcgccggcgg agggcaanac cagaangact cctgcaacgg tgactctggg 360
 gggccccctga tctgcaacgg gtacttgcag ggccttgtgt ctttcggaaa agccccgtgt 420
 ggccaagtgt gcgtgccagg tgtctacacc aacctctgca aattcactga gtggatagag 480
 aaaaccgtcc aggcagttta atga 504

<210> 840
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 840
 ctcaggggttc cggagccgcg g

<210> 841

35

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<210> 843
<211> 729
<212> DNA
<213> Homo sapiens
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<400> 843
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 ggggaggggg ccgcgcgcgc gaccccgctc aagccgctca cgtccttcct catccaggac 120
 atcctgcggg acggcgcgca gcggcaaggc ggccgcacga gcagccagag acagcgcgac 180
 ccggagccgg agccagagcc agagccagag ggaggacgca gccgcgcggg ggcgcgagac 240
 gaccagctga gcaccggggc ccgcgcgcgc ccggatgagg ccgagacgct ggcagagacc 300
 gagccagaaa ggcacttggg gtcttatctg ttggactctg aaaacacttc aggcgcctt 360
 ccaaggcttc cccaaacccc taagcagccg cagaagcgct cccgagctgc cttctccac 420
 actcaggtga tcgagttgga gaggaagttc agccatcaga agtacctgtc ggcccctgaa 480
 cgggccacc tggccaagaa cctcaagctc acggagacc aagtgaagat atggttccag 540
 aacagacgct ataagactaa gcgaaagcag ctctcctcgg agctgggaga cttggagaag 600
 cactcctttt tgccggccct gaaagaggag gccttctccc gggcctccct ggtctccgtg 660
 tataacagct atccttacta cccatacctg cactgcgtgg gcagctggag cccagctttt 720
 tggtaatga 729

<210> 844
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 844
 ctactaagcg ctggagtgg ggatcag 27

<210> 845
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 845
 catcgagaat tcactactct ctgactagat gtc 33

<210> 846
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 846
 Met Gln His His His His His His Ala Gly Val Arg Asp Gln Gly Gln
 1 5 10 15
 Gly Ala Arg Trp Pro His Thr Gly Lys Arg Gly Pro Leu Leu Gln Gly
 20 25 30
 Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Glu Ser Gly
 35 40 45
 Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys

```
<210> 847
<211> 489
<212> DNA
<213> Homo sapiens
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<210> 848
<211> 132
<212> PRT
<213> Homo sapiens
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<400> 848															
Thr	Ala	Ala	Ser	Asp	Asn	Phe	Gln	Leu	Ser	Gln	Gly	Gly	Gln	Gly	Phe
1				5					10					15	
Ala	Ile	Pro	Ile	Gly	Gln	Ala	Met	Ala	Ile	Ala	Gly	Gln	Ile	Arg	Ser
			20					25					30		
Gly	Gly	Gly	Ser	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala	Phe	Leu	Gly
			35				40					45			
Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val	Gln	Arg	Val
	50					55					60				
Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr	Gly	Asp	Val
65				70						75				80	
Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr	Ala	Met	Ala
				85					90					95	
Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser	Val	Asn	Trp
			100					105					110		

Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
 115 120 125
 Gly Pro Pro Ala
 130

<210> 849
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 849
 ggggaattca tcacctatgt gccgcctctg c 31

<210> 850
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 850
 gggctcgagt cactcgccca cgaaatccgt gtaaaacagc 40

<210> 851
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 851
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttggtg ttgtcgacaa caacggcaac 180
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgt cccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcacatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catcacctat 420
 gtgccgcctc tgctgctgga agtgggggta gaggagaagt tcatgaccat ggtgctgggc 480
 attgggtccag tgctgggcct ggtctgtgtc ccgctcctag gctcagccag tgaccactgg 540
 cgtggacgct atggccgccc cgggcccttc atctgggcac tgtccttggg catcctgctg 600
 agcctctttc tcatcccaag ggccggctgg ctagcagggc tgctgtgccc ggatcccagg 660
 cccttgagc tggcactgct catcctgggc gtggggctgc tggacttctg tggccagggtg 720
 tgcttcactc cactggaggc cctgctctct gacctcttc gggaccggga ccactgtcgc 780
 caggcctact ctgtctatgc ctccatgac agtcttgggg gctgcctggg ctacctcctg 840
 cctgccattg actgggacac cagtgcctg gccccctacc tgggcaccca ggaggagtgc 900
 ctctttggcc tgctcaccct catcttcctc acctgogtag cagccacact gctgggtggct 960
 gaggaggcag cgctgggccc caccgagcca gcagaagggc tgtcggcccc ctccctgtcg 1020
 cccactgct gtccatgccg ggcccgttg gctttccgga acctgggcgc cctgcttccc 1080
 cggctgcacc agctgtgctg ccgcatgccc cgcaccctgc gccggctctt cgtggctgag 1140

ctgtgcagct ggatggcact catgaccttc acgctgtttt acacggattt cgtgggcgag 1200
tga 1203

<210> 852
<211> 400
<212> PRT
<213> Homo sapiens

<400> 852
Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
5 10 15
Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
20 25 30
Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
35 40 45
Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
50 55 60
Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
65 70 75 80
Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
85 90 95
Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
100 105 110
Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
115 120 125
Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Thr Tyr Val Pro Pro Leu
130 135 140
Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr Met Val Leu Gly
145 150 155 160
Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
165 170 175
Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
180 185 190
Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
195 200 205
Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
210 215 220
Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
225 230 235 240

1200
1203
PRT
Homo sapiens

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
 245 250 255

Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
 260 265 270

Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser
 275 280 285

Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu
 290 295 300

Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala
 305 310 315 320

Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala
 325 330 335

Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
 340 345 350

Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg
 355 360 365

Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp
 370 375 380

Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu
 385 390 395 400

<210> 853

<211> 20

<212> PRT

<213> Homo sapiens

<400> 853

Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val
 5 10 15

Ser Val Arg Val
 20

<210> 854

<211> 60

<212> DNA

<213> Homo sapiens

<400> 854

ctgctccac ctccaccgc gctctgcggg gcctctgcct gtgatgtctc cgtacgtgtg 60

<210> 855

<211> 10

<212> PRT
 <213> Homo sapiens

<400> 855
 Ala Ser Ala Cys Asp Val Ser Val Arg Val
 5 10

<210> 856
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 856
 gcctctgcct gtgatgtctc cgtacgtgtg 30

<210> 857
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 857
 Ala Ser Ala Cys Asp Val Ser Val Arg
 1 5

<210> 858
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 858
 Ser Ala Cys Asp Val Ser Val Arg Val
 5

<210> 859
 <211> 27
 <212> DNA
 <213> Homo sapiens

<400> 859
 tctgcctgtg atgtctccgt acgtgtg 27

<210> 860
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 860
 Gly Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser
 5 10 15

Ala Ser Asp

<210> 861
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 861
 Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr
 5 10 15

Met Val Leu

<210> 862
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 862
 Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
 5 10 15

Gln Leu Leu

<210> 863
 <211> 57
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(57)
 <223> n = A,T,C or G

<400> 863
 ggnathggnc cngtnytngg nytngtntgy gtnccnytny tnggnwsngc nwsngay 57

<210> 864
 <211> 57
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(57)
 <223> n = A,T,C or G

<400> 864
 gtnccncny tnytnytnga rgtnggngtn gargaraart tyatgacnat ggtnytn 57

<210> 865

<211> 57
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(57)
 <223> n = A,T,C or G

<400> 865
 atggtnccarm gnytnctgggt nwsnmgnytn ytnmgncaym gnaargcnca rytnytn 57

<210> 866
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 866
 Val Leu Gln Cys Val Asn Val Ser Val
 1 5

<210> 867
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 867
 Arg Met Pro Thr Val Leu Gln Cys Val
 1 5

<210> 868
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 868
 Asn Leu Cys Lys Phe Thr Glu Trp Ile
 1 5

<210> 869
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 869
 Met Leu Ile Lys Leu Asp Glu Ser Val
 1 5

<210> 870
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 870

Leu Leu Ala Asn Asp Leu Met Leu Ile
1 5

<210> 871

<211> 10

<212> PRT

<213> Homo sapiens

<400> 871

Leu Leu Ala Asn Gly Arg Met Pro Thr Val
1 5 10

<210> 872

<211> 10

<212> PRT

<213> Homo sapiens

<400> 872

Leu Met Leu Ile Lys Leu Asp Glu Ser Val
1 5 10

<210> 873

<211> 10

<212> PRT

<213> Homo sapiens

<400> 873

Val Leu Gln Cys Val Asn Val Ser Val Val
1 5 10

<210> 874

<211> 10

<212> PRT

<213> Homo sapiens

<400> 874

Gly Leu Leu Ala Asn Gly Arg Met Pro Thr
1 5 10

<210> 875

<211> 10

<212> PRT

<213> Homo sapiens

<400> 875

Thr Val Leu Gln Cys Val Asn Val Ser Val
1 5 10

<210> 876

<211> 9

<212> PRT

<213> Homo sapiens

<400> 876

Gly Val Leu Val His Pro Gln Trp Val

1 5

<210> 877

<211> 9

<212> PRT

<213> Homo sapiens

<400> 877

Val Leu Val His Pro Gln Trp Val Leu

1 5

<210> 878

<211> 1195

<212> DNA

<213> Homo sapiens

<400> 878

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ccgagactca cgggtcaagct aaggcgaaga gtgggtggct gaagccatac tattttatag 60
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ggagaaattt agaagaagac gattatttgc ataaggacac gggagagacc agcatgctaa 180
aaagacctgt gcttttgcac ttgcacacaa cagcccatgc tgatgaattt gactgccctt 240
cagaacttca gcacacacag gaactctttc cacagtggca cttgcccaatt aaaatagctg 300
ctattatagc atctctgact tttctttaca ctcttctgag ggaagtaatt caccctttag 360
caacttccca tcaacaatat ttttataaaa ttccaatcct ggatcatcac aaagtcttgc 420
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tgtagaatta ctgtttacac acatttttgt tcaatattga tatattttat caccaacatt 1140
tcaagtttgt atttggttaat aaaatgatta ttcaaggaaa aaaaaaaaaa aaaaa 1195

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<210> 879

<211> 339

<212> PRT

<213> Homo sapiens

<400> 879

Met Glu Ser Arg Lys Asp Ile Thr Asn Gln Glu Glu Leu Trp Lys Met

5 10 15

Lys Pro Arg Arg Asn Leu Glu Glu Asp Asp Tyr Leu His Lys Asp Thr

20 25 30

Gly Glu Thr Ser Met Leu Lys Arg Pro Val Leu Leu His Leu His Gln
 35 40 45
 Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu Leu Gln His Thr
 50 55 60
 Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile
 65 70 75 80
 Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His
 85 90 95
 Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu
 100 105 110
 Val Ile Asn Lys Val Leu Pro Met Val Ser Ile Thr Leu Leu Ala Leu
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 Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Val Gln Leu His Asn Gly
 130 135 140
 Thr Lys Tyr Lys Lys Phe Pro His Trp Leu Asp Lys Trp Met Leu Thr
 145 150 155 160
 Arg Lys Gln Phe Gly Leu Leu Ser Phe Phe Phe Ala Val Leu His Ala
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 Ile Tyr Ser Leu Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu
 180 185 190
 Leu Asn Trp Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp
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 Ile Glu His Asp Val Trp Arg Met Glu Ile Tyr Val Ser Leu Gly Ile
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 Val Gly Leu Ala Ile Leu Ala Leu Leu Ala Val Thr Ser Ile Pro Ser
 225 230 235 240
 Val Ser Asp Ser Leu Thr Trp Arg Glu Phe His Tyr Ile Gln Ser Lys
 245 250 255
 Leu Gly Ile Val Ser Leu Leu Leu Gly Thr Ile His Ala Leu Ile Phe
 260 265 270
 Ala Trp Asn Lys Trp Ile Asp Ile Lys Gln Phe Val Trp Tyr Thr Pro
 275 280 285
 Pro Thr Phe Met Ile Ala Val Phe Leu Pro Ile Val Val Leu Ile Phe
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 Lys Ser Ile Leu Phe Leu Pro Cys Leu Arg Lys Lys Ile Leu Lys Ile
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Arg His Gly Trp Glu Asp Val Thr Lys Ile Asn Lys Thr Glu Ile Cys
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Ser Gln Leu

<210> 880
 <211> 2172
 <212> DNA
 <213> Homo sapiens

<400> 880
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<210> 881
 <211> 2455

<212> DNA
 <213> Homo sapiens

<400> 881

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<210> 882
 <211> 2455
 <212> DNA
 <213> Homo sapiens

<400> 882

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<210> 883
<211> 62
<212> PRT
<213> Homo sapiens
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<400> 883
Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
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          20                      25                      30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
          35                      40                      45

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<400> 885
Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
          5              10              15

Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
          20              25              30

Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
          35              40              45

```

Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
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Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
 65 70 75

<210> 886

<211> 60

<212> PRT

<213> Homo sapiens

<400> 886

Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15

Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 887

<211> 76

<212> PRT

<213> Homo sapiens

<400> 887

Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 888

<211> 76

<212> PRT

<213> Homo sapiens

<400> 888

Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp

5 10 15
 Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
 20 25 30
 Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
 35 40 45
 Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
 50 55 60
 Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
 65 70 75

<210> 889
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 889
 Met Leu Leu His Ser Ser Leu Val Asn Arg Ala Arg Leu Cys Leu Lys
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 Asn Lys Gln Ile Asn Lys Gln Thr Asn Lys Thr Glu Arg Phe Cys Cys
 20 25 30
 Asn Val Gln Gly Ala Ile Cys Ser Phe Lys Lys Ile Ile Phe Gly Gln
 35 40 45
 Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Lys Val
 50 55 60
 Gly Gly Ser Phe Glu Val Arg Ser Leu Arg Ser Ala Trp Pro Thr Trp
 65 70 75 80

<210> 890
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 890
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro His Asn Pro
 5 10 15
 Ile Thr Ser His Gln Val Ser Ser Asp Thr Trp Asp Trp Val Gly Thr
 20 25 30
 Gln Ser Gln Thr Val Ser Asp Ala Ala Gly Ala Gly Asp Thr Glu Thr
 35 40 45
 Thr Gln Thr Trp Cys Leu Cys His Ser Ser Gly Leu Cys Leu Ser Pro
 50 55 60

Gly Pro Pro Ser Pro Ser Met Val
65 70

<210> 891
<211> 77
<212> PRT
<213> Homo sapiens

<400> 891
Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
5 10 15

Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
20 25 30

Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
35 40 45

Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
50 55 60

Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
65 70 75

<210> 892
<211> 60
<212> PRT
<213> Homo sapiens

<400> 892
Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
5 10 15

Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
20 25 30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
50 55 60

<210> 893
<211> 76
<212> PRT
<213> Homo sapiens

<400> 893
Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
5 10 15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
65 70 75

<210> 894
<211> 2479
<212> DNA
<213> Homo sapiens

<400> 894
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<210> 895

<211> 492

<212> PRT

<213> Homo sapiens

<400> 895

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Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
              20                      25                      30

Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
              35                      40                      45

Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
              50                      55                      60

Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
              65                      70                      75                      80

Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
              85                      90                      95

Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
              100                      105                      110

Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
              115                      120                      125

Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
              130                      135                      140

Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
              145                      150                      155                      160

Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
              165                      170                      175

Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
              180                      185                      190

Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
              195                      200                      205

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Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
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 Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
 225 230 235 240
 Cys Leu Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
 245 250 255
 Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
 260 265 270
 Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
 275 280 285
 Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn
 290 295 300
 Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
 305 310 315 320
 Phe Tyr Gly Ala Gly Tyr Gln Val Gln Lys Val Ile Ser His Pro Asn
 325 330 335
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 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
 355 360 365
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
 370 375 380
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
 385 390 395 400
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
 405 410 415
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
 420 425 430
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
 435 440 445
 Asn Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
 450 455 460
 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
 465 470 475 480
 Thr Asp Trp Ile Tyr Arg Gln Met Lys Ala Asn Gly
 485 490

<210> 896
 <211> 683
 <212> DNA
 <213> Homo sapiens

<400> 896
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 atgacagcgg atccaccagc ttt 683

<210> 897
 <211> 209
 <212> PRT
 <213> Homo sapiens

<400> 897
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 Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
 20 25 30
 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
 85 90 95
 Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
 100 105 110
 Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
 115 120 125
 Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
 130 135 140
 Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
 145 150 155 160
 Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
 165 170 175
 Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
 180 185 190

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<210> 902
<211> 27
<212> DNA
<213> Artificial Sequence
```

<220>
<223> PCR primer

<400> 902
gtcgactcag aaatcctttc tcttgac

27

<210> 903
<211> 936
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G

<400> 903
atgggctgca ggctgntctg ctgtgcggtt ctctgtctcc tgggagcggg ccccatggaa 60
acgggagtta cgcagacacc aagacacctg gtcattggga tgacaaataa gaagtctttg 120
aaatgtgaac aacatctggg tcataacgct atgtattggg acaagcaaag tgctaagaag 180
ccactggagc tcatgtttgt ctacagtctt gaagaacggg ttgaaaacaa cagtgtgcc 240
agtcgcttct cacctgaatg ccccaacagc tctcacttat tcttccacct acacacctg 300
cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
tacgagcagt acttcggggc gggcaccagg ctacaggtca cagaggacct gaaaaacgtg 420
ttcccaccgg aggtcgctgt gtttgagcca tcagaagcag agatctccca caccctaaaag 480
gccacactgg tgtgcctggc cacaggcttc taccocgacc acgtggagct gagctgggtg 540
tggaatggga aggaggtgca cagtggggtc agcacagacc cgcagcccct caaggagcag 600
ccgcacctca atgactccag atactgcctg agcagccgcc tgaggggtctc ggccaccttc 660
tggcagaacc cccgcaacca cttccgctgt caagtccagt tctacgggct ctcgagaaat 720
gacgagtgga cccaggatag ggccaaacct gtcaccaga tcgtcagcgc cgaggcctgg 780
ggtagagcag actgtggctt cacctccgag tcttaccagc aaggggtcct gtctgccacc 840
atcctctatg agatcttgct agggaaaggc accttgatg ccgtgctggg cagtgccttc 900
gtgctgatgg ccatgggtcaa gagaaaggat ttctga 936

<210> 904
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G

<400> 904
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gccagaaga taactcaaac ccaaccagga atgttcgtgc agggaaagga ggctgtgact 120
ctggactgca catatgacac cagtgatcaa agttatggc tcttctggta caagcagccc 180
agcagtgggg aaatgatttt tcttatttat caggggtctt atgacgagca aaatgcaaca 240
gaaggctcgt actcattgaa tttccagaag gcaagaaaat ccgccaacct tgtcatctcc 300
gcttcacaac tgggggactc agcaatgtat ttctgtgcaa tgagagaggg cgcgggagga 360
ggaaacaaac tcacctttgg gacaggcact cagctaaaag tggaactcaa tatccagaac 420

```

cctgaccctg ccgtgtacca gctgagagac tctaaatcca gtgacaagtc tgtctgccta 480
ttcaccgatt ttgattctca aacaaatgtg tcacaaagta aggattctga tgtgtatatc 540
acagacaaaa ctgtgctaga catgaggctt atggacttca agagcaacag tgctgtggcc 600
tggagcaaca aatctgactt tgcattgtgca aacgccttca acaacagcat tattccagaa 660
gacaccttct tccccagccc agaaaagttcc tgtgatgtca agctgggtcga gaaaagcttt 720
gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg aatcctctc 780
ctgaaagtgg ccgggtttta tctgctcatg acgctgcggc tgtggtccag ctga      834

```

<210> 905

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> variant

<222> (1)...(311)

<223> Xaa = Any amino acid

<400> 905

```

Met Gly Cys Arg Leu Xaa Cys Cys Ala Val Leu Cys Leu Leu Gly Ala
                    5                      10                      15

```

```

Val Pro Met Glu Thr Gly Val Thr Gln Thr Pro Arg His Leu Val Met
                20                      25                      30

```

```

Gly Met Thr Asn Lys Lys Ser Leu Lys Cys Glu Gln His Leu Gly His
                35                      40                      45

```

```

Asn Ala Met Tyr Trp Tyr Lys Gln Ser Ala Lys Lys Pro Leu Glu Leu
                50                      55                      60

```

```

Met Phe Val Tyr Ser Leu Glu Glu Arg Val Glu Asn Asn Ser Val Pro
                65                      70                      75                      80

```

```

Ser Arg Phe Ser Pro Glu Cys Pro Asn Ser Ser His Leu Phe Leu His
                85                      90                      95

```

```

Leu His Thr Leu Gln Pro Glu Asp Ser Ala Leu Tyr Leu Cys Ala Ser
                100                      105                      110

```

```

Ser Gln Asp Arg Thr Ser Ser Ser Tyr Glu Gln Tyr Phe Gly Pro Gly
                115                      120                      125

```

```

Thr Arg Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
                130                      135                      140

```

```

Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys
                145                      150                      155                      160

```

```

Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu
                165                      170                      175

```

```

Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr
                180                      185                      190

```

Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr
195 200 205

Cys Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro
210 215 220

Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn
225 230 235 240

Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser
245 250 255

Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr
260 265 270

Gln Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly
275 280 285

Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala
290 295 300

Met Val Lys Arg Lys Asp Phe
305 310

<210> 906

<211> 277

<212> PRT

<213> Homo sapiens

<400> 906

Met Ser Leu Ser Ser Leu Leu Lys Val Val Thr Ala Ser Leu Trp Leu
5 10 15

Gly Pro Gly Ile Ala Gln Lys Ile Thr Gln Thr Gln Pro Gly Met Phe
20 25 30

Val Gln Glu Lys Glu Ala Val Thr Leu Asp Cys Thr Tyr Asp Thr Ser
35 40 45

Asp Gln Ser Tyr Gly Leu Phe Trp Tyr Lys Gln Pro Ser Ser Gly Glu
50 55 60

Met Ile Phe Leu Ile Tyr Gln Gly Ser Tyr Asp Glu Gln Asn Ala Thr
65 70 75 80

Glu Gly Arg Tyr Ser Leu Asn Phe Gln Lys Ala Arg Lys Ser Ala Asn
85 90 95

Leu Val Ile Ser Ala Ser Gln Leu Gly Asp Ser Ala Met Tyr Phe Cys
100 105 110

Ala Met Arg Glu Gly Ala Gly Gly Gly Asn Lys Leu Thr Phe Gly Thr

115 120 125
 Gly Thr Gln Leu Lys Val Glu Leu Asn Ile Gln Asn Pro Asp Pro Ala
 130 135 140
 Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu
 145 150 155 160
 Phe Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser
 165 170 175
 Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp
 180 185 190
 Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala
 195 200 205
 Cys Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe
 210 215 220
 Pro Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe
 225 230 235 240
 Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe
 245 250 255
 Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu
 260 265 270
 Arg Leu Trp Ser Ser
 275

<210> 907

<211> 1536

<212> DNA

<213> Homo sapiens

<400> 907

```

atgtacaacc tgttgctgtc ctaogacaga catggggacc acctgcagcc cctggacctc 60
gtgccaatc accagggtct cacccttttc aagctggctg gactggaggg taacactgtg 120
atgtttcagc acctgatgca gaagcggaag cacaccaggt ggacgtatgg accactgacc 180
tcgactctct atgacctcac agagatcgac tctcagggg atgagcagtc cctgctggaa 240
cttatcatca ccaccaagaa gcgggaggct cgccagatcc tggaccagac gccggtgaag 300
gagctgggtga gcctcaagtg gaagcggtac gggcgggcgt acttctgcat gctgggtgcc 360
atatatctgc tgtacatcat ctgcttcaac atgtgctgca tctaccgcc cctcaagccc 420
aggaccaata accgcacgag ccccggggac aacaccctct tacagcagaa gctacttcag 480
gaagcctaca tgacccttaa ggacgatatc cggttggtcg gggagctggt gactgtcatt 540
ggggctatca tcactctgct ggtagagggt ccagacatct tcagaatggg ggtcactcgc 600
ttctttggac agaccatcct tgggggcccc ttccatgtcc tcatcatcac ctatgccttc 660
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tcctttgcac tcgtgctggg ctggtgcaac gtcattgtact tcgcccagg attccagatg 780
ctaggccctt tcaccatcat gattcagaag atgatttttg gcgacctgat gcgattctgc 840
tggtgatggt ctgtggtcat cctgggcttt gcttcagcct tctatatcat cttccagaca 900

```

```
<210> 908
<211> 1533
<212> DNA
<213> Homo sapiens
```

```
<210> 909
<211> 511
<212> PRT
<213> Homo sapiens
```

<400> 909
Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
5 10 15

Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
 20 25 30
 Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
 35 40 45
 Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
 50 55 60
 Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
 65 70 75 80
 Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
 85 90 95
 Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
 100 105 110
 Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
 115 120 125
 Phe Thr Met Cys Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn
 130 135 140
 Arg Thr Ser Pro Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln
 145 150 155 160
 Glu Ala Tyr Met Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu
 165 170 175
 Val Thr Val Ile Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp
 180 185 190
 Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly
 195 200 205
 Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val
 210 215 220
 Thr Met Val Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met
 225 230 235 240
 Ser Phe Ala Leu Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg
 245 250 255
 Gly Phe Gln Met Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile
 260 265 270
 Phe Gly Asp Leu Met Arg Phe Cys Trp Leu Met Ala Val Val Ile Leu
 275 280 285
 Gly Phe Ala Ser Ala Phe Tyr Ile Ile Phe Gln Thr Glu Asp Pro Glu
 290 295 300

Glu Leu Gly His Phe Tyr Asp Tyr Pro Met Ala Leu Phe Ser Thr Phe
305 310 315 320

Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro Ala Asn Tyr Asn Val Asp
325 330 335

Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala Ala Phe Ala Ile Ile Ala
340 345 350

Thr Leu Leu Met Leu Asn Leu Leu Ile Ala Met Met Gly Asp Thr His
355 360 365

Trp Arg Val Ala His Glu Arg Asp Glu Leu Trp Arg Ala Gln Ile Val
370 375 380

Ala Thr Thr Val Met Leu Glu Arg Lys Leu Pro Arg Cys Leu Trp Pro
385 390 395 400

Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly Leu Gly Asp Arg Trp Phe
405 410 415

Leu Arg Val Glu Asp Arg Gln Asp Leu Asn Arg Gln Arg Ile Gln Arg
420 425 430

Tyr Ala Gln Ala Phe His Thr Arg Gly Ser Glu Asp Leu Asp Lys Asp
435 440 445

Ser Val Glu Lys Leu Glu Leu Gly Cys Pro Phe Ser Pro His Leu Ser
450 455 460

Leu Pro Met Pro Ser Val Ser Arg Ser Thr Ser Arg Ser Ser Ala Asn
465 470 475 480

Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg Arg Asp Leu Arg Gly Ile
485 490 495

Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser Trp Glu Tyr Gln Ile
500 505 510

<210> 910

<211> 134

<212> PRT

<213> Homo sapiens

<400> 910

Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
5 10 15

Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
20 25 30

Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
35 40 45

Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
 50 55 60

Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
 65 70 75 80

Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
 85 90 95

Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
 100 105 110

Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
 115 120 125

Phe Thr Met Cys Cys Ile
 130

<210> 911

<211> 55

<212> PRT

<213> Homo sapiens

<400> 911

Ala Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro Arg
 5 10 15

Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met Thr
 20 25 30

Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile Gly
 35 40 45

Ala Ile Ile Ile Leu Leu Val
 50 55

<210> 912

<211> 39

<212> PRT

<213> Homo sapiens

<400> 912

Glu Val Pro Asp Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln
 5 10 15

Thr Ile Leu Gly Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe
 20 25 30

Met Val Leu Val Thr Met Val
 35

<210> 913
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 913
 Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala
 5 10 15

Leu Val Leu

<210> 914
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 914
 Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met Leu Gly
 5 10 15

Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu Met Arg
 20 25 30

Phe Cys Trp Leu Met Ala Val Val Ile Leu Gly Phe Ala Ser Ala Phe
 35 40 45

Tyr Ile Ile Phe
 50

<210> 915
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 915
 Gln Thr Glu Asp Pro Glu Glu Leu Gly His Phe Tyr Asp Tyr Pro Met
 5 10 15

Ala Leu Phe Ser Thr Phe Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro
 20 25 30

Ala Asn Tyr Asn Val Asp Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala
 35 40 45

Ala Phe Ala Ile Ile Ala Thr Leu Leu Met Leu Asn Leu Leu Ile Ala
 50 55 60

Met Met Gly Asp Thr His Trp Arg Val Ala His Glu Arg Asp Glu Leu
 65 70 75 80

<400>	916					
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tcacagttca	gcttcttcat	gatggtggat	cccaatggca	atgaatccag	tgctacatac	120
ttcatcctaa	taggcctccc	tggtttagaa	gaggctcagt	tctggttggc	cttccattg	180
tgtccctct	accttattgc	tgtgctagg	aacttgacaa	tcatctacat	tgtgcgga	240
gagcacagcc	tgcatgagcc	catgtatata	tttctttgca	tgctttcagg	cattgacatc	300
ctcatctcca	cctcatccat	gcccaaatg	ctggccatct	tctggttcaa	ttccactacc	360
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tcacagtgcc	tgtcggccat	ggcttttgac	cgtctatgtg	ccatctgtca	cccactgcgc	480
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gccaggcca	aggcatttgg	cacttgcgtc	tctcatgtgt	gtgctgtgtt	catattctat	840
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cccgctcatct	tgccaatat	ctatctgctg	gttctctctg	tgctcaacct	aattgtctat	960
ggagtgaaga	caaaggagat	tcgacagcgc	atccttcgac	ttttccatgt	ggccacacac	1020
gcttcagagc	cctaggtgtc	agtgatcaaa	cttcttttcc	attcagagtc	ctctgattca	1080
gatttttaatg	ttaacatttt	ggaagacagt	attcagaaaa	aaaatttcc	taataaaaa	1140

acaactcaga tccttcaaat atgaaactgg ttggggaatc tccatttttt caatattatt 1200
 ttcttctttg ttttcttgct acatataatt attaataccc tgactagggt gtgggttgag 1260
 gggtattact tttcatttta ccatgcagtc caaatctaaa ct 1302

<210> 917

<211> 2061

<212> DNA

<213> Homo sapiens

<400> 917

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 attttggaag acagtattca gaaaaaaaaa ttccttaata aaaatacaac tcagatcctt 180
 caaatatgaa actgggtggg gaatctccat tttttcaata ttattttctt ctttgttttc 240
 ttgctacata taattattaa taccctgact aggttggtgg tggagggtta ttacttttca 300
 ttttaccatg cagtccaaat ctaaaactgct tctactgatg gtttacagca ttctgagata 360
 agaatggtag atctagagaa catttgccaa aggcctaagc acggcaaagg aaaataaaca 420
 cagaatataa taaaatgaga taatctagct taaaactata acttctctct cagaactccc 480
 aaccacattg gatctcagaa aaatgctgtc ttcaaaatga cttctacaga gaagaaataa 540
 tttttcctct ggacactagc acttaagggg aagattggaa gtaaagcctt gaaaagagta 600
 catttaccta cgtaaatgaa agttgacaca ctgttctgag agttttcaca gcatatggac 660
 cctgtttttc ctattttaatt ttcttatcaa ccctttaatt aggcaaagat attattagta 720
 ccctcattgt agccatggga aaattgatgt tcagtgggga tcagtgaatt aaatggggtc 780
 atacaagtat aaaaattaaa aaaaaaggac ttcattgcca atctcatatg atgtggaaga 840
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 tctggccatt acttccaatg tgagtgaag tgacatgtgc aatttctata cctggctcat 1860
 aaaaccctcc catgtgcagc ctttcatgtt gacattaaat gtgacttggg aagctatgtg 1920
 ttacacagag taaatcacca gaagcctgga tttctgaaaa aactgtgcag agccaaacct 1980
 ctgtcatttg caactccac ttgtatttgt acgaggcagt tggataagtg aaaaataaag 2040
 tactatttg tcaagtctct g 2061

<210> 918

<211> 957

<212> DNA

<213> Homo sapiens

<400> 918

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gctgtgctag gtaacttgac aatcatctac attgtgcgga ctgagcacag cctgcatgag 180
cccatgtata tatttccttg catgctttca ggcattgaca tctcatctc cacctcatcc 240
atgcccaaaa tgctggccat cttctggttc aattccacta ccatccagtt tgatgcttgt 300
ctgctacaga tgtttgccat ccactcctta tctggcatgg aatccacagt gctgctggcc 360
atggcctttg accgctatgt ggccatctgt caccactgc gccatgccac agtacttacg 420
ttgcctcgtg tcaccaaagt tgggtgggct gctgtgggtg ggggggctgc actgatggca 480
ccccctcctg tcttcatcaa gcagctgccc ttctgccgt ccaatactc tccccattcc 540
tactgcctac accaagatgt catgaagctg gcctgtgat atatccgggt caatgtcgtc 600
tatggcctta tcgtcatcat ctccgccatt ggctggact cacttctcat ctcttctca 660
tatctgctta ttcttaagac tgtgtgggc ttgacacgtg aagcccaggc caaggcattt 720
ggcacttgcg tctctcatgt gtgtgctgtg ttcataattct atgtacctt cattggattg 780
tccatgggtg atcgctttag caagcggcgt gactctccgc tgcccgatc cttggccaat 840
atctatctgc tggttcctcc tgtgctcaac ccaattgtct atggagtga gacaaaggag 900
attcgacagc gcactcctcg acttttccat gtggccacac acgcttcaga gccctag 957

```

<210> 919

<211> 954

<212> DNA

<213> Homo sapiens

<400> 919

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cctgggttag aagaggctca gttctggttg gccttcccat tgtgtccct ctaccttatt 120
gctgtgctag gtaacttgac aatcatctac attgtgcgga ctgagcacag cctgcatgag 180
cccatgtata tatttccttg catgctttca ggcattgaca tctcatctc cacctcatcc 240
atgcccaaaa tgctggccat cttctggttc aattccacta ccatccagtt tgatgcttgt 300
ctgctacaga tgtttgccat ccactcctta tctggcatgg aatccacagt gctgctggcc 360
atggcctttg accgctatgt ggccatctgt caccactgc gccatgccac agtacttacg 420
ttgcctcgtg tcaccaaagt tgggtgggct gctgtgggtg ggggggctgc actgatggca 480
ccccctcctg tcttcatcaa gcagctgccc ttctgccgt ccaatactc tccccattcc 540
tactgcctac accaagatgt catgaagctg gcctgtgat atatccgggt caatgtcgtc 600
tatggcctta tcgtcatcat ctccgccatt ggctggact cacttctcat ctcttctca 660
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<210> 920

<211> 318

<212> PRT

<213> Homo sapiens

<400> 920

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Met Met Val Asp Pro Asn Gly Asn Glu Ser Ser Ala Thr Tyr Phe Ile
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Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu Ala Phe
          20                      25                      30

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Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile
          35                      40                      45

```

Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile
 50 55 60
 Phe Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser
 65 70 75 80
 Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln
 85 90 95
 Phe Asp Ala Cys Leu Leu Gln Met Phe Ala Ile His Ser Leu Ser Gly
 100 105 110
 Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
 115 120 125
 Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val
 130 135 140
 Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala
 145 150 155 160
 Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile
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 Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys
 180 185 190
 Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser
 195 200 205
 Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile
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 Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe
 225 230 235 240
 Gly Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro
 245 250 255
 Phe Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser
 260 265 270
 Pro Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val
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<210> 921

<211> 28
 <212> PRT
 <213> Homo sapiens

<400> 921
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 5 10 15
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<210> 922
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 922
 Arg Thr Glu His Ser Leu His Glu Pro
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<210> 923
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 923
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 Ala Cys Leu Leu Gln
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<210> 924
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 <212> PRT
 <213> Homo sapiens

<400> 924
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 Thr Leu Pro Arg
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<210> 925
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 925

Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile Leu Ser His Ser
 5 10 15

Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Asp Asp Ile Arg
 20 25 30

Val Asn Val Val Tyr
 35

<210> 926

<211> 13

<212> PRT

<213> Homo sapiens

<400> 926

Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys
 5 10

<210> 927

<211> 10

<212> PRT

<213> Homo sapiens

<400> 927

Val His Arg Phe Ser Lys Arg Arg Asp Ser
 5 10

<210> 928

<211> 22

<212> PRT

<213> Homo sapiens

<400> 928

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Thr His Ala Ser Glu Pro
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<210> 929

<211> 3245

<212> DNA

<213> Homo sapiens

<400> 929

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<210> 930

<211> 1479

<212> DNA
<213> Homo sapiens

<400> 930

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ccggctcagt actaccgctc ccccggtgcc cagtacgccc cgaggggtcct gacgcaggct 180
tccaaccccg tcgtctgcac gcagcccaaa tccccatccg ggacagtgtg cacctcaaag 240
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<210> 931
<211> 1476
<212> DNA
<213> Homo sapiens

<400> 931

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ccggctcagt actaccgctc ccccggtgcc cagtacgccc cgaggggtcct gacgcaggct 180
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cctcttaaca atccatggca ttggacggca tttgcgggga ttttgagaca atctttcatg 960
ttctatggag ccggatacca agtagaaaaa gtgatttctc atccaaatta tgactccaag 1020

```


Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
 305 310 315 320
 Phe Tyr Gly Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn
 325 330 335
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
 340 345 350
 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
 355 360 365
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
 370 375 380
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
 385 390 395 400
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
 405 410 415
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
 420 425 430
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
 435 440 445
 Lys Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
 450 455 460
 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
 465 470 475 480
 Thr Asp Trp Ile Tyr Arg Gln Met Arg Ala Asp Gly
 485 490

<210> 933
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 933
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 Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
 20 25 30
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 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
 85 90 95
 Gly Ala Ala Leu
 100

<210> 934
 <211> 393
 <212> PRT
 <213> Homo sapiens

<400> 934

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Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys Cys Ser Asn
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                    20              25              30
Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp Glu Asn Arg
                    35              40              45
Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val Tyr Ser Ser
                    50              55              60
Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Trp Asn Glu Asn
                    65              70              75              80
Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn Asn Phe Tyr
                    85              90              95
Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser Phe Met Lys
                    100              105              110
Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys Leu Tyr His
                    115              120              125
Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg Cys Ile Ala
                    130              135              140
Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile Val Gly Gly
145              150              155              160
Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser Leu His Val
                    165              170              175
Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro Glu Trp Ile
                    180              185              190
Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn Pro Trp His
                    195              200              205
Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met Phe Tyr Gly
210              215              220
Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn Tyr Asp Ser
225              230              235              240
Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln Lys Pro Leu
                    245              250              255
Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn Pro Gly Met
                    260              265              270
Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp Gly Ala Thr
                    275              280              285
Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala Lys Val Leu
290              295              300
Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr Asp Asn Leu
305              310              315              320
Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly Asn Val Asp
                    325              330              335
Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser Lys Asn Asn
                    340              345              350
Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly Cys Ala Lys
                    355              360              365
Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe Thr Asp Trp
370              375              380
Ile Tyr Arg Gln Met Arg Ala Asp Gly
385              390

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<210> 935

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 935

gtgctgtggg agtccccgcg gc

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<210> 936

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 936

cgtgaactcg agtcattaga ttaacctcgt ggacgc

36

<210> 937

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 937

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22

<210> 938

<211> 1158

<212> DNA

<213> Homo sapiens

<400> 938

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 gcccggccgg tgaagctcgc tgctttccct acctccttaa gtgactgcca aacgcccacc 180
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<210> 939

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 939

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gaatgtttaa gaattggaga cactgtgact tgcgtctgtc agttcaagtg caacaatgac 180
tatgtgectg tgtgtggctc caatggggag agctaccaga atgagtgtta cctgcgacag 240
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<210> 940

<211> 336

<212> PRT

<213> Homo sapiens

<400> 940

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Met Gln His His His His His Asp Cys Gln Thr Pro Thr Gly Trp
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Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp
                20              25              30
Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr
                35              40              45
Val Thr Cys Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val
                50              55              60
Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln
                65              70              75              80
Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser
                85              90              95
Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly
                100              105              110
Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln
                115              120              125
Phe Gly Ala Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys
                130              135              140

```



```

Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp
145           150           155           160
Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln
           165           170           175
Lys Gln Glu Lys Ile Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn
           180           185           190
Thr Thr Thr Thr Thr Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp
           195           200           205
Tyr Ala Glu Asn Ala Asn Lys Leu Glu Glu Ser Ala Arg Glu His His
           210           215           220
Ile Pro Cys Pro Glu His Tyr Asn Gly Phe Cys Met His Gly Lys Cys
225           230           235           240
Glu His Ser Ile Asn Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly
           245           250           255
Tyr Thr Gly Gln His Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val
           260           265           270
Val Pro Gly Pro Val Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile
           275           280           285
Gly Thr Ile Gln Ile Ala Val Ile Cys Val Val Val Leu Cys Ile Thr
           290           295           300
Arg Lys Cys Pro Arg Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr
305           310           315           320
Gly His Tyr Ser Ser Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
           325           330           335

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<210> 941
<211> 381
<212> PRT
<213> Homo sapiens

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<400> 941
Met Gln His His His His His His Val Leu Trp Glu Ser Pro Arg Gln
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Cys Ser Ser Trp Thr Leu Cys Glu Gly Phe Cys Trp Leu Leu Leu Leu
           20           25           30
Pro Val Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe
           35           40           45
Pro Thr Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser
           50           55           60
Gly Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr
           65           70           75           80
Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys
           85           90           95
Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser
           100           105           110
Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys
           115           120           125
Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr
           130           135           140
Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu
145           150           155           160
Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala
           165           170           175

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Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp
 180 185 190
 Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser
 195 200 205
 Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu
 210 215 220
 Lys Ile Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr
 225 230 235 240
 Thr Thr Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu
 245 250 255
 Asn Ala Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys
 260 265 270
 Pro Glu His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser
 275 280 285
 Ile Asn Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly
 290 295 300
 Gln His Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly
 305 310 315 320
 Pro Val Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile
 325 330 335
 Gln Ile Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys
 340 345 350
 Pro Arg Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr
 355 360 365
 Ser Ser Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
 370 375 380

<210> 942
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 942
 ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg tgaac

45

<210> 943
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 943
 Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val Asn
 5 10 15

<210> 944
 <211> 1883
 <212> DNA
 <213> Homo sapiens

<400> 944
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tgtgaacttc actactggaa agcaacaaag gcagtcggca taaaaatggg ttctctcagc 180
 acagctaacg ttgaattttg ccttgatgtg ttcaaagagc tgaacagtaa caacatagga 240
 gataacatct tcttttcttc gctgagtcgt ctttatgtct taagcatggg cctccttggg 300
 gccaggggag agactgcaga gcaattggag aagggtgctt atttttagtca tactgtagac 360
 tcattaaaaac caggggttcaa ggactcacct aagtgcagcc aagctggaag aattcattcc 420
 gagtttggtg tcgaattctc tcaaatacaac cagccagact ctaactgtac cctcagcatt 480
 gccaacaggc tctacgggac aaagacgatg gcattttcatc agcaatattt aagctgttct 540
 gagaaatggt atcaagccag gttgcaaaact gtggattttg aacagtctac agaagaaacg 600
 aggaaaatga ttaatgcttg ggttgaaaaat aaaactaatg gaaaagtgcg aaatctcttt 660
 ggaaagagca caattgaccc ttcatctgta atggctcctg tgaataccat atatttcaaa 720
 ggacaaaggc aaaataaatt tcaaggtaaa aatgtaactg tggaaatgat gtatcaaatt 780
 ggaacattta aactggcctt tgtaaaggag ccgcagatgc aagttcttga gctgcctac 840
 gttaacaaca aattaagcat gattattctg cttccagtag gcatagctaa tctgaaacag 900
 atagaaaagc agctgaattc ggggacgttt catgagtga caagctcttc taacatgatg 960
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 tccctgttaa aacctctagg ggtgacagat ctcttcaacc aggtcaaagc tgatctttct 1080
 ggaatgtcac caaccaaggg cctatattta tcaaaagcca tccacaagtc atacctggat 1140
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 tagacttatg cagaaagcct ttctggcttt cttatctgtg gtgtctcatt tgagtgtgt 1560
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 tgtatctgtg agatcttgaa taagtgaact gacatctctg cttaaagaaa accagctgaa 1680
 gggcttcaac tttgcttgga tttttaaata ttttcttgc atatgtaaat agaatgtggt 1740
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 taaattgaaa aaaaaaaaaa aaa 1883

<210> 945
 <211> 2471
 <212> DNA
 <213> Homo sapiens

<400> 945
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 tottgcgtga gtctgcttta tgctctaagc atggctctcc ttgggtgccag gggagagact 180
 gcagagcaat tggagaagggt gcttcatttt agtcatactg tagactcatt aaaaccaggg 240
 ttcaaggact cacctaagtg cagccaagct ggaagaattc attccgagtt tgggtgtctaa 300
 ttctctcaaa tcaaccagcc agactctaac tgtacctca gcattgccaa caggctctac 360
 gggacaaaga cgatggcatt tcatcagcaa tatttaagct gttctgagaa atggtatcaa 420
 gccaggttgc aaactgtgga ttttgaacag tctacagaag aaacgaggaa aacgattaat 480
 gcttgggttg aaaataaaac taatggaaaa gtcgcaaata tcttttgaaa gagcacaatt 540
 gacccttcat ctgtaatggg cctggtgaat gccatatatt tcaaaggaca atggcaaaat 600
 aaattttcaag taagagagac agttaaaagt ccttttctcagc taagtgaggt aagtatttta 660
 ttttcagact catgacaaat gttggaggat acaataatca ttttaaggaca atttagaaaag 720
 atgtagtgat ttagtgaaaa tattggtcta ggtttctgtt ggttcttttt attgtatttt 780
 ctacagattt tcatttttcc tttattaagt gacaataact tttatcacag agcacctaac 840
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 tctctcggtt tattctttcc atatatactg tggttatggt ctccagcagc aactaaggc 960
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<210> 946
<211> 379
<212> PRT
<213> Homo sapiens
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Met Gly Ser Leu Ser Thr Ala Asn Val Glu Phe Cys Leu Asp Val Phe
5 10 15

Leu Ser Leu Leu Tyr Ala Leu Ser Met Val Leu Leu Gly Ala Arg Gly
35 40 45

Asp Ser Leu Lys Pro Gly Phe Lys Asp Ser Pro Lys Cys Ser Gln Ala
65 70 75 80

Pro Asp Ser Asn Cys Thr Leu Ser Ile Ala Asn Arg Leu Tyr Gly Thr
100 105 110

Lys Thr Met Ala Phe His Gln Gln Tyr Leu Ser Cys Ser Glu Lys Trp

<210>	947
<211>	617
<212>	PRT

<213> Homo sapiens

<220>

<221> variant

<222> (1)...(617)

<223> Xaa = Any amino acid

<400> 947

Met Gly Ser Leu Ser Thr Ala Asn Val Glu Phe Cys Leu Asp Val Phe
5 10 15

Lys Glu Leu Asn Ser Asn Asn Ile Gly Asp Asn Ile Phe Phe Ser Ser
20 25 30

Leu Ser Leu Leu Tyr Ala Leu Ser Met Val Leu Leu Gly Ala Arg Gly
35 40 45

Glu Thr Ala Glu Gln Leu Glu Lys Val Leu His Phe Ser His Thr Val
50 55 60

Asp Ser Leu Lys Pro Gly Phe Lys Asp Ser Pro Lys Cys Ser Gln Ala
65 70 75 80

Gly Arg Ile His Ser Glu Phe Gly Val Xaa Phe Ser Gln Ile Asn Gln
85 90 95

Pro Asp Ser Asn Cys Thr Leu Ser Ile Ala Asn Arg Leu Tyr Gly Thr
100 105 110

Lys Thr Met Ala Phe His Gln Gln Tyr Leu Ser Cys Ser Glu Lys Trp
115 120 125

Tyr Gln Ala Arg Leu Gln Thr Val Asp Phe Glu Gln Ser Thr Glu Glu
130 135 140

Thr Arg Lys Thr Ile Asn Ala Trp Val Glu Asn Lys Thr Asn Gly Lys
145 150 155 160

Val Ala Asn Leu Phe Gly Lys Ser Thr Ile Asp Pro Ser Ser Val Met
165 170 175

Val Leu Val Asn Ala Ile Tyr Phe Lys Gly Gln Trp Gln Asn Lys Phe
180 185 190

Gln Val Arg Glu Thr Val Lys Ser Pro Phe Gln Leu Ser Glu Val Ser
195 200 205

Ile Leu Phe Ser Asp Ser Xaa Gln Met Leu Glu Asp Thr Ile Ile Ile
210 215 220

Xaa Gly Gln Phe Arg Lys Met Xaa Xaa Phe Ser Glu Asn Ile Gly Leu
225 230 235 240

Gly Phe Cys Trp Phe Phe Leu Leu Tyr Phe Leu Gln Ile Phe Ile Phe

				245				250				255				
Pro	Leu	Leu	Ser	Asp	Asn	Asn	Phe	Tyr	His	Arg	Ala	Pro	Asn	Trp	Arg	
			260				265						270			
Leu	Gly	Ile	Leu	Arg	Phe	Ser	Gly	Arg	Gly	Glu	Asn	Pro	Phe	Phe	Ser	
			275				280						285			
Xaa	Arg	Ser	Leu	Gly	Leu	Phe	Phe	Pro	Tyr	Ile	Leu	Trp	Leu	Cys	Ser	
			290				295						300			
Pro	Ala	Ala	His	Xaa	Gly	Tyr	Leu	Cys	Tyr	Phe	Phe	Phe	Xaa	Arg	Val	
305						310						315			320	
Ser	Xaa	Gly	Lys	Ile	Lys	Lys	Lys	Met	Ile	Xaa	Xaa	Tyr	Ile	Leu	Phe	
			325						330			335				
Leu	Pro	Thr	Lys	Ile	Met	Leu	Ala	Lys	Asn	Pro	Asp	Phe	Val	Phe	Gly	
			340						345			350				
Arg	Pro	Ser	Tyr	Leu	Tyr	Ile	Leu	Leu	Glu	Gln	Phe	Ser	Leu	Xaa	Pro	
			355			360						365				
Xaa	Leu	Ile	Leu	Asn	Xaa	Lys	Asn	Gly	Xaa	Pro	Leu	Gln	Arg	Glu	Val	
			370			375						380				
Ile	Arg	Asn	Leu	Leu	Cys	Ser	Phe	Tyr	Phe	Thr	His	Ala	Phe	Arg	Val	
385						390						395			400	
Phe	Met	Gln	Ile	Ser	Val	Leu	Arg	Lys	Val	Ile	Ser	Thr	His	Thr	Cys	
			405						410			415				
Ala	Leu	Thr	Tyr	Val	Ser	Ile	Leu	Xaa	Ser	Phe	Ser	Ser	Xaa	Gln	Gly	
			420						425			430				
Lys	Asn	Val	Thr	Val	Glu	Met	Met	Tyr	Gln	Ile	Gly	Thr	Phe	Lys	Leu	
			435						440			445				
Ala	Phe	Val	Lys	Glu	Pro	Gln	Met	Gln	Val	Leu	Glu	Leu	Pro	Tyr	Val	
			450			455						460				
Asn	Asn	Lys	Leu	Ser	Met	Ile	Ile	Leu	Leu	Pro	Val	Gly	Ile	Ala	Asn	
465						470						475			480	
Leu	Lys	Gln	Ile	Glu	Lys	Gln	Leu	Asn	Ser	Gly	Thr	Phe	His	Glu	Trp	
			485						490			495				
Thr	Ser	Ser	Ser	Asn	Met	Met	Glu	Arg	Glu	Val	Glu	Val	His	Leu	Pro	
			500						505			510				
Arg	Phe	Lys	Leu	Glu	Thr	Lys	Tyr	Glu	Leu	Asn	Ser	Leu	Leu	Lys	Ser	
			515			520						525				
Leu	Gly	Val	Thr	Asp	Leu	Phe	Asn	Gln	Val	Lys	Ala	Asp	Leu	Ser	Gly	

530

535

540

Met Ser Pro Thr Lys Gly Leu Tyr Leu Ser Lys Ala Ile His Lys Ser
545 550 555 560

Tyr Leu Asp Val Ser Glu Glu Gly Thr Glu Ala Ala Ala Ala Thr Gly
565 570 575

Asp Ser Ile Ala Val Lys Ser Leu Pro Met Arg Ala Gln Phe Lys Ala
580 585 590

Asn His Pro Phe Leu Phe Phe Ile Arg His Thr His Thr Asn Thr Ile
595 600 605

Leu Phe Cys Gly Lys Leu Ala Ser Pro
610 615

<210> 948

<211> 729

<212> DNA

<213> Homo sapiens

<400> 948

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atcctgcggg acggcgcgca gcggcaaggc ggccgcacga gcagccagag acagcgcgac 180
ccggagccgg agccagagcc agagccagag ggaggacgca gccgcgccgg ggccagaaac 240
gaccagctga gcaccgggcc ccgcgcgcgg ccggaggagg ccgagacgct ggccagagacc 300
gagccagaaa ggcacttggg gtcttatctg ttggactctg aaaacacttc aggcgccttt 360
ccaaggett cccaaacccc taagcagccg cagaagcgct cccgagctgc cttctcccac 420
actcaggtga tcgagttgga gaggaagttc agccatcaga agtacctgtc ggcccctgaa 480
cgggcccacc tggccaagaa cctcaagctc acggagaccc aagtgaagat atggttccag 540
aacagacgct ataagactaa gcgaaagcag ctctcctcgg agctgggaga cttggagaag 600
cactcctctt tgccggccct gaaagaggag gccttctccc gggcctccct ggtctccgtg 660
tataacagct atccttacta ccataacctg tactgcgtgg gcagctggag cccagctttt 720
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<210> 949

<211> 16

<212> PRT

<213> Homo sapiens

<400> 949

Arg Glu Ile Ser Phe Glu Ala Cys Leu Thr Gln Met Phe Phe Ile His
1 5 10 15

<210> 950

<211> 18

<212> PRT

<213> Homo sapiens

<400> 950

Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Ala Val Leu
 1 5 10 15
 Asn Asn

<210> 951

<211> 13

<212> PRT

<213> Homo sapiens

<400> 951

Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His
 1 5 10

<210> 952

<211> 15

<212> PRT

<213> Homo sapiens

<400> 952

His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu Pro Asn
 1 5 10 15

<210> 953

<211> 14

<212> PRT

<213> Homo sapiens

<400> 953

Arg Thr Val Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys
 1 5 10

<210> 954

<211> 12

<212> PRT

<213> Homo sapiens

<400> 954

His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
 1 5 10

<210> 955

<211> 15

<212> PRT

<213> Homo sapiens

<400> 955

Asn Pro Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg
 1 5 10 15

<210> 956

<211> 14

<400> 956
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<400> 957
Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala
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<400> 958
Val Thr Gln Ile His Lys Thr Leu Ser His Gly Asp Ile Thr Met
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<400> 959
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1 5 10 15

<400> 960
Leu His Thr Ile Thr Pro Pro His Thr Leu Pro Val Asp Thr Arg
1 5 10 15

<400> 961
Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys
1 5 10 15

<210>	962
<211>	15

<212> PRT
 <213> Homo sapiens

<400> 962
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 1 5 10 15

<210> 963
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 963
 Ala Tyr Ala Cys Arg Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro
 1 5 10 15

<210> 964
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 964
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 1 5 10 15

<210> 965
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 965
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 1 5 10 15

<210> 966
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 966
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 1 5 10 15

<210> 967
 <211> 1292
 <212> DNA
 <213> Homo sapiens

<400> 967
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 ggtgaaggta ctctacagtg tgggtcattga ggacaagttg acgagagagt cccaagtacg 120
 tccacgggtca gccttgcggt aagcttgtgt gcttagagga acccagggtg acgatggggc 180

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catggtttcc agaacaggga acttttagatc taaaagattg ggaaaaaatt ggcaaagaat 360
taaaacaagc aaatagggaa ggtaaaatca tcccacttac agtatggaat gattggggcca 420
ttattaaagc aacttttagaa ccatttcaaa caggagaaga tattgtttca gtttctgatg 480
cccctaaaag ctgtgtaaca gattgtgaag aagaggcagg gacagaatcc cagcaaggaa 540
cggaaagttc acattgtaaa tatgtagcag agtctgtaat ggctcagtca acgcaaaatg 600
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gtccagaatc attggggcca tcagagccta aaccacgatc gccatcaact cctcctcccg 720
tggttcagat gcctgtaaca ttacaacctc aaacgcaggt tagacaagca caaaccccaa 780
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tgccaaccga gcttcagtat cggcctcctt cagaggttca atacagacct caagcgggtg 960
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catcacgtag tggacagggt ggtgcaactg atgcagtcac tgatgaagcc agaaaacagg 1140
gcgatcttga ggcattggcg ttcttggtta ttttacaact ggtacaggcc ggggaagaga 1200
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<210> 968
<211> 373
<212> PRT
<213> Homo sapiens

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<400> 968
Met Gly Gln Thr Glu Ser Lys Tyr Ala Ser Tyr Leu Ser Phe Ile Lys
      5                      10                      15

Ile Leu Leu Arg Arg Gly Gly Val Arg Ala Ser Thr Glu Asn Leu Ile
      20                      25                      30

Thr Leu Phe Gln Thr Ile Glu Gln Phe Cys Pro Trp Phe Pro Glu Gln
      35                      40                      45

Gly Thr Leu Asp Leu Lys Asp Trp Glu Lys Ile Gly Lys Glu Leu Lys
      50                      55                      60

Gln Ala Asn Arg Glu Gly Lys Ile Ile Pro Leu Thr Val Trp Asn Asp
      65                      70                      75                      80

Trp Ala Ile Ile Lys Ala Thr Leu Glu Pro Phe Gln Thr Gly Glu Asp
      85                      90                      95

Ile Val Ser Val Ser Asp Ala Pro Lys Ser Cys Val Thr Asp Cys Glu
      100                     105                     110

Glu Glu Ala Gly Thr Glu Ser Gln Gln Gly Thr Glu Ser Ser His Cys
      115                     120                     125

Lys Tyr Val Ala Glu Ser Val Met Ala Gln Ser Thr Gln Asn Val Asp
      130                     135                     140

Tyr Ser Gln Leu Gln Glu Ile Ile Tyr Pro Glu Ser Ser Lys Leu Gly

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145 150 155 160
 Glu Gly Gly Pro Glu Ser Leu Gly Pro Ser Glu Pro Lys Pro Arg Ser
 165 170 175
 Pro Ser Thr Pro Pro Pro Val Val Gln Met Pro Val Thr Leu Gln Pro
 180 185 190
 Gln Thr Gln Val Arg Gln Ala Gln Thr Pro Arg Glu Asn Gln Val Glu
 195 200 205
 Arg Asp Arg Val Ser Ile Pro Ala Met Pro Thr Gln Ile Gln Tyr Pro
 210 215 220
 Gln Tyr Gln Pro Val Glu Asn Lys Thr Gln Pro Leu Val Val Tyr Gln
 225 230 235 240
 Tyr Arg Leu Pro Thr Glu Leu Gln Tyr Arg Pro Pro Ser Glu Val Gln
 245 250 255
 Tyr Arg Pro Gln Ala Val Cys Pro Val Pro Asn Ser Thr Ala Pro Tyr
 260 265 270
 Gln Gln Pro Thr Ala Met Ala Ser Asn Ser Pro Ala Thr Gln Asp Ala
 275 280 285
 Ala Leu Tyr Pro Gln Pro Pro Thr Val Arg Leu Asn Pro Thr Ala Ser
 290 295 300
 Arg Ser Gly Gln Gly Gly Ala Leu His Ala Val Ile Asp Glu Ala Arg
 305 310 315 320
 Lys Gln Gly Asp Leu Glu Ala Trp Arg Phe Leu Val Ile Leu Gln Leu
 325 330 335
 Val Gln Ala Gly Glu Glu Thr Gln Val Gly Ala Pro Ala Arg Ala Glu
 340 345 350
 Thr Arg Cys Glu Pro Phe Thr Met Lys Met Leu Lys Asp Ile Lys Glu
 355 360 365
 Gly Val Lys Gln Tyr
 370

<210> 969
 <211> 50
 <212> DNA
 <213> Homo sapiens

<400> 969
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<210> 970
 <211> 31
 <212> DNA
 <213> Homo sapiens

<400> 970
 tctgcctgtg atgtctccgt acgtgtggtg g 31

<210> 971
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 971
 ggggcctctg cctgtgatgt ctccgtacgt gtggtggtgg gtgag 45

<210> 972
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 972
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<210> 973
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 973
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<210> 974
 <211> 24
 <212> DNA
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